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Administration

Petroleum Supply Monthly

with data for June 2019

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Preface

The Petroleum Supply Monthly (PSM) is the monthly component of a series of three publications produced by the Office of Petroleum and Biofuels Statistics of the U.S. Energy Information Administration (EIA). The other two components are the Weekly Petroleum Status Report (WPSR) and the Petroleum Supply Annual (PSA). Together these publications present comprehensive petroleum and biofuel supply data on a weekly, monthly and annual basis.

Data presented in the PSM describe the supply and disposition of petroleum products in the United States and major U.S. geographic regions. The data series describe production, imports and exports, inter-Petroleum Administration for Defense (PAD) District movements, and inventories by the primary suppliers of petroleum products in the United States (50 States and the District of Columbia). The reporting universe includes those petroleum sectors in primary supply. Included are: petroleum refiners, motor gasoline blenders, oxygenate producers, operators of natural gas processing plants and fractionators, inter-PAD District transporters, importers, and major inventory holders of crude oil, petroleum products, and biofuels. When aggregated, the data reported by these sectors approximately represent the consumption of petroleum products in the United States.

Scope of data

The PSM presents statistics for the most current month available as well as year-to-date. In most cases, the statistics are presented for several geographic areas - - the United States (50 States and the District of Columbia), five PAD Districts, and 12 Refining Districts. At the U.S. and PAD District levels, the total volume and the daily rate of activities are presented. The statistics are developed from monthly survey forms submitted by respondents to the EIA and from data provided from other sources including federal and state agencies.

Sections

- U.S. supply and disposition of crude oil, petroleum products, and biofuels
- Regional supply and disposition of crude oil, petroleum products, and biofuels
- Crude oil supply and disposition and production by state
- Natural Gas Processing
- Refinery Operations
- Imports of residual fuel oil by state of entry
- Imports by PADD
- Imports by country of origin
- Exports
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- Stocks
- Movements of crude oil, petroleum products, and biofuels

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Table 1. U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, June 2019
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³	
Crude Oil⁴	362,455	--	--	214,233	18,866	-16,197	516,976	94,776	0	1,108,779
Hydrocarbon Gas Liquids	143,778	-634	25,782	4,695	--	22,525	12,940	56,017	82,139	228,930
Natural Gas Liquids	143,778	-634	17,452	4,182	--	22,728	12,940	56,017	73,093	221,370
Ethane	54,950	--	131	--	--	3,970	--	8,247	42,864	60,215
Propane	46,660	--	9,012	2,971	--	8,371	--	35,139	15,133	71,705
Normal Butane	12,646	--	8,608	787	--	9,862	1,218	8,796	2,165	58,168
Isobutane	12,481	--	-299	420	--	-250	6,543	194	6,115	11,575
Natural Gasoline	17,041	-634	--	4	--	775	5,179	3,642	6,815	19,707
Refinery Olefins	--	--	8,330	513	--	-203	--	--	9,046	7,560
Ethylene	--	--	7	--	--	0	--	--	7	0
Propylene	--	--	8,705	379	--	-97	--	--	9,181	6,584
Normal Butylene	--	--	-364	134	--	-103	--	--	-127	935
Isobutylene	--	--	-18	--	--	-3	--	--	-15	41
Other Liquids	--	37,826	--	41,493	2,011	-7,186	73,896	15,023	-403	335,385
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	37,830	--	1,613	2,132	-757	36,612	5,721	0	30,704
Hydrogen	--	--	--	--	6,369	--	6,369	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,565	--	129	-559	-231	4	2,362	0	1,726
Renewable Fuels (including Fuel Ethanol)	--	35,265	--	1,484	-3,706	-524	30,208	3,359	0	28,938
Fuel Ethanol ⁵	--	31,895	--	574	-1,317	-245	28,338	3,059	0	22,573
Renewable Fuels Except Fuel Ethanol	--	3,370	--	910	-2,389	-279	1,870	300	0	6,365
Other Hydrocarbons	--	--	--	--	29	-2	31	--	0	40
Unfinished Oils	--	--	--	18,724	--	-2,031	14,504	6,636	-385	95,903
Motor Gasoline Blend.Comp. (MGBG) ⁵	--	-4	--	21,156	-122	-4,407	22,771	2,666	0	208,751
Reformulated	--	--	--	5,402	1,669	-3,342	10,382	31	0	52,094
Conventional	--	-4	--	15,754	-1,790	-1,065	12,389	2,636	0	156,657
Aviation Gasoline Blend. Comp.	--	--	--	--	--	9	9	--	-18	27
Finished Petroleum Products	--	133	610,711	16,734	3,678	-1,270	--	96,153	536,374	281,839
Finished Motor Gasoline	--	133	306,942	1,275	1,439	-1,580	--	21,135	290,234	20,979
Reformulated	--	--	99,335	--	-597	-12	--	--	98,750	34
Conventional	--	133	207,607	1,275	2,036	-1,568	--	21,135	191,483	20,945
Finished Aviation Gasoline	--	--	398	13	--	-35	--	--	446	1,009
Kerosene-Type Jet Fuel	--	--	56,477	5,227	--	1,220	--	6,511	53,973	40,570
Kerosene	--	--	-41	--	--	-213	--	165	7	1,830
Distillate Fuel Oil ⁵	--	--	160,476	3,511	2,239	848	--	45,055	120,324	130,840
15 ppm sulfur and under	--	--	150,706	2,734	2,239	2,394	--	36,080	117,206	118,210
Greater than 15 ppm to 500 ppm sulfur	--	--	3,773	42	--	310	--	3,368	137	3,795
Greater than 500 ppm sulfur	--	--	5,997	735	--	-1,856	--	5,607	2,981	8,835
Residual Fuel Oil ⁶	--	--	12,895	2,819	--	311	--	5,608	9,795	30,339
Less than 0.31 percent sulfur	--	--	1,624	--	--	460	--	NA	NA	3,821
0.31 to 1.00 percent sulfur	--	--	1,786	750	--	-217	--	NA	NA	4,456
Greater than 1.00 percent sulfur	--	--	9,485	2,069	--	68	--	NA	NA	22,056
Petrochemical Feedstocks	--	--	8,781	525	--	-367	--	--	9,673	3,044
Naphtha for Petro. Feed. Use	--	--	5,712	440	--	-285	--	--	6,437	2,269
Other Oils for Petro. Feed. Use	--	--	3,069	85	--	-82	--	--	3,236	775
Special Naphthas	--	--	967	578	--	31	--	--	1,514	1,181
Lubricants	--	--	4,880	1,338	--	163	--	2,910	3,145	10,310
Waxes	--	--	149	159	--	2	--	103	203	663
Petroleum Coke	--	--	25,582	189	--	282	--	13,733	11,756	9,417
Marketable	--	--	18,790	189	--	282	--	13,733	4,964	9,417
Catalyst	--	--	6,792	--	--	--	--	--	6,792	--
Asphalt and Road Oil	--	--	10,068	1,099	--	-1,954	--	851	12,270	31,041
Still Gas	--	--	20,607	--	--	--	--	--	20,607	--
Miscellaneous Products	--	--	2,530	1	--	22	--	81	2,428	616
Total	506,233	37,325	636,493	277,155	24,555	-2,128	603,812	261,968	618,110	1,954,933

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 2. U.S. Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-June 2019
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³	
Crude Oil⁴	2,164,628	--	--	1,275,784	77,453	17,846	2,983,313	516,706	0	1,108,779
Hydrocarbon Gas Liquids	856,586	-3,658	119,885	39,841	--	40,413	95,105	309,637	567,499	228,930
Natural Gas Liquids	856,586	-3,658	70,125	36,138	--	41,009	95,105	309,637	513,440	221,370
Ethane	338,400	--	839	--	--	10,575	--	48,759	279,905	60,215
Propane	276,793	--	52,310	26,363	--	8,047	--	186,173	161,246	71,705
Normal Butane	73,135	--	18,710	7,214	--	20,433	28,286	45,762	4,578	58,168
Isobutane	74,095	--	-1,734	2,535	--	3,085	38,788	849	32,174	11,575
Natural Gasoline	94,163	-3,658	--	26	--	-1,131	28,031	28,094	35,537	19,707
Refinery Olefins	--	--	49,760	3,703	--	-596	--	--	54,059	7,560
Ethylene	--	--	54	--	--	0	--	--	54	0
Propylene	--	--	50,860	2,759	--	-362	--	--	53,981	6,584
Normal Butylene	--	--	-1,125	914	--	-140	--	--	-71	935
Isobutylene	--	--	-29	30	--	-94	--	--	95	41
Other Liquids	--	221,384	--	239,674	36,534	-2,419	403,463	91,514	5,034	335,385
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	221,411	--	6,774	16,674	-671	214,626	30,904	0	30,704
Hydrogen	--	--	--	--	38,074	--	38,074	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	14,494	--	565	-3,554	175	30	11,300	0	1,726
Renewable Fuels (including Fuel Ethanol)	--	206,917	--	6,182	-17,994	-865	176,366	19,603	0	28,938
Fuel Ethanol ⁵	--	186,361	--	1,138	-4,607	-765	165,547	18,110	0	22,573
Renewable Fuels Except Fuel Ethanol	--	20,556	--	5,044	-13,387	-100	10,819	1,494	0	6,365
Other Hydrocarbons	--	--	--	27	148	19	156	--	0	40
Unfinished Oils	--	--	--	103,792	--	10,047	46,855	41,826	5,064	95,903
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-27	--	129,108	19,860	-11,791	141,948	18,784	0	208,751
Reformulated	--	-3	--	30,451	45,598	1,993	73,954	99	0	52,094
Conventional	--	-24	--	98,657	-25,738	-13,784	67,994	18,685	0	156,657
Aviation Gasoline Blend. Comp.	--	--	--	--	--	-4	34	--	-30	27
Finished Petroleum Products	--	696	3,554,710	126,929	-2,694	-12,450	--	589,337	3,102,754	281,839
Finished Motor Gasoline	--	696	1,809,802	13,009	-15,253	-4,753	--	144,246	1,668,761	20,979
Reformulated	--	--	582,973	--	-43,025	-10	--	--	539,958	34
Conventional	--	696	1,226,829	13,009	27,773	-4,743	--	144,246	1,128,803	20,945
Finished Aviation Gasoline	--	--	2,156	128	--	53	--	--	2,231	1,009
Kerosene-Type Jet Fuel	--	--	317,655	28,445	--	-1,016	--	37,077	310,039	40,570
Kerosene	--	--	1,176	101	--	-765	--	563	1,479	1,830
Distillate Fuel Oil ⁵	--	--	927,753	36,812	12,559	-9,166	--	236,247	750,043	130,840
15 ppm sulfur and under	--	--	865,082	34,609	12,559	-5,386	--	187,087	730,549	118,210
Greater than 15 ppm to 500 ppm sulfur	--	--	24,061	565	--	-1,316	--	23,532	2,410	3,795
Greater than 500 ppm sulfur	--	--	38,610	1,638	--	-2,464	--	25,629	17,083	8,835
Residual Fuel Oil ⁶	--	--	67,775	26,559	--	2,025	--	46,783	45,526	30,339
Less than 0.31 percent sulfur	--	--	10,337	2,868	--	1,676	--	NA	NA	3,821
0.31 to 1.00 percent sulfur	--	--	9,191	3,709	--	-261	--	NA	NA	4,456
Greater than 1.00 percent sulfur	--	--	48,247	19,982	--	610	--	NA	NA	22,056
Petrochemical Feedstocks	--	--	53,429	3,083	--	-360	--	--	56,872	3,044
Naphtha for Petro. Feed. Use	--	--	35,526	2,456	--	-125	--	--	38,107	2,269
Other Oils for Petro. Feed. Use	--	--	17,903	627	--	-235	--	--	18,765	775
Special Naphthas	--	--	5,490	2,463	--	-280	--	--	8,233	1,181
Lubricants	--	--	28,847	7,690	--	-3,645	--	20,312	19,870	10,310
Waxes	--	--	823	936	--	-13	--	722	1,050	663
Petroleum Coke	--	--	149,981	1,179	--	1,518	--	98,272	51,370	9,417
Marketable	--	--	110,633	1,179	--	1,518	--	98,272	12,022	9,417
Catalyst	--	--	39,348	--	--	--	--	--	39,348	--
Asphalt and Road Oil	--	--	54,587	6,518	--	3,996	--	4,802	52,307	31,041
Still Gas	--	--	119,814	--	--	--	--	--	119,814	--
Miscellaneous Products	--	--	15,422	6	--	-44	--	314	15,158	616
Total	3,021,214	218,422	3,674,595	1,682,228	111,294	43,390	3,481,881	1,507,195	3,675,286	1,954,933

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NA = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

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³ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

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Table 3. U.S. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, June 2019
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil⁴	12,082	--	--	7,141	629	-540	17,233	3,159	0
Hydrocarbon Gas Liquids	4,793	-21	859	157	--	751	431	1,867	2,738
Natural Gas Liquids	4,793	-21	582	139	--	758	431	1,867	2,436
Ethane	1,832	--	4	--	--	132	--	275	1,429
Propane	1,555	--	300	99	--	279	--	1,171	504
Normal Butane	422	--	287	26	--	329	41	293	72
Isobutane	416	--	-10	14	--	-8	218	6	204
Natural Gasoline	568	-21	--	0	--	26	173	121	227
Refinery Olefins	--	--	278	17	--	-7	--	--	302
Ethylene	--	--	0	--	--	0	--	--	0
Propylene	--	--	290	13	--	-3	--	--	306
Normal Butylene	--	--	-12	4	--	-3	--	--	-4
Isobutylene	--	--	-1	--	--	0	--	--	-1
Other Liquids	--	1,261	--	1,383	67	-240	2,463	501	-13
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,261	--	54	71	-25	1,220	191	0
Hydrogen	--	--	--	--	212	--	212	--	0
Oxygenates (excluding Fuel Ethanol)	--	86	--	4	-19	-8	0	79	0
Renewable Fuels (including Fuel Ethanol)	--	1,176	--	49	-124	-17	1,007	112	0
Fuel Ethanol ⁵	--	1,063	--	19	-44	-8	945	102	0
Renewable Fuels Except Fuel Ethanol	--	112	--	30	-80	-9	62	10	0
Other Hydrocarbons	--	--	--	--	1	0	1	--	0
Unfinished Oils	--	--	--	624	--	-68	483	221	-13
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	705	-4	-147	759	89	0
Reformulated	--	--	--	180	56	-111	346	1	0
Conventional	--	0	--	525	-60	-36	413	88	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	-1
Finished Petroleum Products	--	4	20,357	558	123	-42	--	3,205	17,879
Finished Motor Gasoline	--	4	10,231	43	48	-53	--	705	9,674
Reformulated	--	--	3,311	--	-20	0	--	--	3,292
Conventional	--	4	6,920	43	68	-52	--	705	6,383
Finished Aviation Gasoline	--	--	13	0	--	-1	--	--	15
Kerosene-Type Jet Fuel	--	--	1,883	174	--	41	--	217	1,799
Kerosene	--	--	-1	--	--	-7	--	5	0
Distillate Fuel Oil ⁵	--	--	5,349	117	75	28	--	1,502	4,011
15 ppm sulfur and under	--	--	5,024	91	75	80	--	1,203	3,907
Greater than 15 ppm to 500 ppm sulfur	--	--	126	1	--	10	--	112	5
Greater than 500 ppm sulfur	--	--	200	25	--	-62	--	187	99
Residual Fuel Oil ⁶	--	--	430	94	--	10	--	187	326
Less than 0.31 percent sulfur	--	--	54	--	--	15	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	60	25	--	-7	--	NA	NA
Greater than 1.00 percent sulfur	--	--	316	69	--	2	--	NA	NA
Petrochemical Feedstocks	--	--	293	18	--	-12	--	--	322
Naphtha for Petro. Feed. Use	--	--	190	15	--	-10	--	--	215
Other Oils for Petro. Feed. Use	--	--	102	3	--	-3	--	--	108
Special Naphthas	--	--	32	19	--	1	--	--	50
Lubricants	--	--	163	45	--	5	--	97	105
Waxes	--	--	5	5	--	0	--	3	7
Petroleum Coke	--	--	853	6	--	9	--	458	392
Marketable	--	--	626	6	--	9	--	458	165
Catalyst	--	--	226	--	--	--	--	--	226
Asphalt and Road Oil	--	--	336	37	--	-65	--	28	409
Still Gas	--	--	687	--	--	--	--	--	687
Miscellaneous Products	--	--	84	0	--	1	--	3	81
Total	16,874	1,244	21,216	9,239	819	-71	20,127	8,732	20,604

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 4. U.S. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-June 2019
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil⁴	11,959	--	--	7,049	428	99	16,482	2,855	0
Hydrocarbon Gas Liquids	4,733	-20	662	220	--	223	525	1,711	3,135
Natural Gas Liquids	4,733	-20	387	200	--	227	525	1,711	2,837
Ethane	1,870	--	--	--	--	58	--	269	1,546
Propane	1,529	--	289	146	--	44	--	1,029	891
Normal Butane	404	--	103	40	--	113	156	253	25
Isobutane	409	--	14	14	--	17	214	5	178
Natural Gasoline	520	-20	--	0	--	-6	155	155	196
Refinery Olefins	--	--	275	20	--	-3	--	--	299
Ethylene	--	--	0	--	--	0	--	--	0
Propylene	--	--	281	15	--	-2	--	--	298
Normal Butylene	--	--	-6	5	--	-1	--	--	0
Isobutylene	--	--	165	0	--	-1	--	--	1
Other Liquids	--	1,223	--	1,324	202	-13	2,229	506	28
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,223	--	37	92	-4	1,186	171	0
Hydrogen	--	--	--	--	210	--	210	--	0
Oxygenates (excluding Fuel Ethanol)	--	80	--	3	-20	1	0	62	0
Renewable Fuels (including Fuel Ethanol)	--	1,143	--	34	-99	-5	974	108	0
Fuel Ethanol ⁵	--	1,030	--	6	-25	-4	915	100	0
Renewable Fuels Except Fuel Ethanol	--	114	--	28	-74	-1	60	8	0
Other Hydrocarbons	--	--	--	0	1	0	1	--	0
Unfinished Oils	--	--	--	573	--	56	259	231	28
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	713	110	-65	784	104	0
Reformulated	--	0	--	168	252	11	409	1	0
Conventional	--	0	--	545	-142	-76	376	103	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	4	19,639	701	-15	-69	--	3,256	17,142
Finished Motor Gasoline	--	4	9,999	72	-84	-26	--	797	9,220
Reformulated	--	--	3,221	--	-238	0	--	--	2,983
Conventional	--	4	6,778	72	153	-26	--	797	6,236
Finished Aviation Gasoline	--	--	12	1	--	0	--	--	12
Kerosene-Type Jet Fuel	--	--	1,755	157	--	-6	--	205	1,713
Kerosene	--	--	6	1	--	-4	--	3	8
Distillate Fuel Oil ⁵	--	--	5,126	203	69	-51	--	1,305	4,144
15 ppm sulfur and under	--	--	4,779	191	69	-30	--	1,034	4,036
Greater than 15 ppm to 500 ppm sulfur	--	--	133	3	--	-7	--	130	13
Greater than 500 ppm sulfur	--	--	213	9	--	-14	--	142	94
Residual Fuel Oil ⁶	--	--	374	147	--	11	--	258	252
Less than 0.31 percent sulfur	--	--	57	16	--	9	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	51	20	--	-1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	267	110	--	3	--	NA	NA
Petrochemical Feedstocks	--	--	295	17	--	-2	--	--	314
Naphtha for Petro. Feed. Use	--	--	196	14	--	-1	--	--	211
Other Oils for Petro. Feed. Use	--	--	99	3	--	-1	--	--	104
Special Naphthas	--	--	30	14	--	-2	--	--	45
Lubricants	--	--	159	42	--	-20	--	112	110
Waxes	--	--	5	5	--	0	--	4	6
Petroleum Coke	--	--	829	7	--	8	--	543	284
Marketable	--	--	611	7	--	8	--	543	66
Catalyst	--	--	217	--	--	--	--	--	217
Asphalt and Road Oil	--	--	302	36	--	22	--	27	289
Still Gas	--	--	662	--	--	--	--	--	662
Miscellaneous Products	--	--	85	0	--	0	--	2	84
Total	16,692	1,207	20,302	9,294	615	240	19,237	8,327	20,305

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 5. PAD District 1 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, June 2019
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	2,000	--	--	23,820	6,211	-1,316	-339	31,053	1	0	14,786
Hydrocarbon Gas Liquids	17,368	-15	1,414	1,074	-3,873	--	1,144	408	8,162	6,254	8,555
Natural Gas Liquids	17,368	-15	1,086	836	-4,181	--	1,139	408	8,162	5,385	8,397
Ethane	7,161	--	--	--	--	--	261	--	1,838	44	709
Propane	5,829	--	576	595	1,382	--	900	--	4,559	2,923	4,863
Normal Butane	1,905	--	511	20	-126	--	36	11	1,716	547	2,439
Isobutane	784	--	-1	221	-162	--	-6	324	1	523	176
Natural Gasoline	1,689	-15	--	--	-257	--	-52	73	48	1,348	210
Refinery Olefins	--	--	328	238	--	--	5	--	--	869	158
Ethylene	--	--	7	--	--	--	--	--	--	7	--
Propylene	--	--	409	238	--	--	-9	--	--	964	76
Normal Butylene	--	--	-114	--	--	--	17	--	--	-131	41
Isobutylene	--	--	26	--	--	--	-3	--	--	29	41
Other Liquids	--	969	--	19,925	58,378	1,639	-5,571	86,247	78	157	70,004
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	972	--	103	8,133	1,041	-418	10,616	51	0	8,479
Hydrogen	--	--	--	--	--	96	--	96	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	--	--	1	0	--
Renewable Fuels (including Fuel Ethanol)	--	972	--	103	8,133	944	-418	10,520	51	0	8,479
Fuel Ethanol	--	809	--	--	8,004	1,325	-199	10,287	50	0	6,956
Renewable Fuels Except Fuel Ethanol	--	163	--	103	130	-381	-219	233	1	0	1,523
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	1,488	12	--	-365	1,684	24	157	5,251
Motor Gasoline Blend.Comp. (MGBC)	--	-3	--	18,334	50,233	598	-4,788	73,947	3	0	56,274
Reformulated	--	--	--	5,087	8,636	1,842	-1,991	17,555	1	0	19,861
Conventional	--	-3	--	13,247	41,597	-1,244	-2,797	56,392	2	0	36,413
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	117,927	7,963	45,487	-1,542	3,746	--	4,326	161,764	74,890
Finished Motor Gasoline	--	--	99,715	910	2,328	-1,923	-1,175	--	1,029	101,177	3,454
Reformulated	--	--	40,213	--	--	-1,701	-10	--	--	38,522	17
Conventional	--	--	59,502	910	2,328	-221	-1,165	--	1,029	62,655	3,437
Finished Aviation Gasoline	--	--	--	1	45	--	-38	--	--	84	114
Kerosene-Type Jet Fuel	--	--	3,743	2,055	14,783	--	747	--	595	19,239	9,045
Kerosene	--	--	-28	--	--	--	-132	--	101	3	1,263
Distillate Fuel Oil ⁶	--	--	9,705	2,235	25,864	381	3,611	--	1,917	32,656	44,305
15 ppm sulfur and under	--	--	9,555	1,853	24,770	381	4,136	--	1,529	30,893	39,278
Greater than 15 ppm to 500 ppm sulfur	--	--	168	42	--	--	-16	--	--	226	1,296
Greater than 500 ppm sulfur	--	--	-18	340	1,094	--	-509	--	388	1,537	3,731
Residual Fuel Oil ⁷	--	--	1,171	1,791	--	--	1,118	--	314	1,530	7,393
Less than 0.31 percent sulfur	--	--	-7	--	--	--	183	--	NA	NA	1,644
0.31 to 1.00 percent sulfur	--	--	764	511	--	--	633	--	NA	NA	1,417
Greater than 1.00 percent sulfur	--	--	414	1,280	--	--	302	--	NA	NA	4,332
Petrochemical Feedstocks	--	--	59	4	109	--	-39	--	--	211	58
Naphtha for Petro. Feed. Use	--	--	59	4	--	--	-39	--	--	102	58
Other Oils for Petro. Feed. Use	--	--	--	--	109	--	--	--	--	109	--
Special Naphthas	--	--	26	--	--	--	7	--	--	19	43
Lubricants	--	--	381	141	591	--	183	--	220	710	1,088
Waxes	--	--	15	43	--	--	10	--	49	-1	340
Petroleum Coke	--	--	800	1	703	--	--	--	13	1,492	--
Marketable	--	--	174	1	703	--	--	--	13	866	--
Catalyst	--	--	626	--	--	--	--	--	--	626	--
Asphalt and Road Oil	--	--	1,000	782	1,064	--	-550	--	75	3,321	7,752
Still Gas	--	--	1,274	--	--	--	--	--	--	1,274	--
Miscellaneous Products	--	--	66	--	--	--	4	--	13	49	35
Total	19,368	954	119,341	52,782	106,204	-1,220	-1,020	117,708	12,567	168,174	168,235

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 6. PAD District 1 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-June 2019
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil	11,364	--	--	132,975	33,441	3,135	3,131	177,041	743	0	14,786
Hydrocarbon Gas Liquids	97,833	-86	6,473	10,090	-15,319	--	-482	7,920	32,178	59,375	8,555
Natural Gas Liquids	97,833	-86	4,222	8,651	-17,237	--	-352	7,920	32,178	53,637	8,397
Ethane	39,714	--	--	--	--	--	-134	--	4,497	2,115	709
Propane	33,508	--	3,347	7,243	17,422	--	-1,124	--	20,228	42,416	4,863
Normal Butane	10,525	--	861	291	1,078	--	1,019	4,335	6,502	899	2,439
Isobutane	4,660	--	14	1,117	-1,055	--	-18	2,433	6	2,315	176
Natural Gasoline	9,426	-86	--	--	-1,446	--	-95	1,152	945	5,892	210
Refinery Olefins	--	--	2,251	1,439	--	--	-130	--	--	5,738	158
Ethylene	--	--	54	--	--	--	--	--	--	54	--
Propylene	--	--	2,184	1,439	--	--	-45	--	--	5,586	76
Normal Butylene	--	--	-152	--	--	--	-66	--	--	-86	41
Isobutylene	--	--	165	--	--	--	-19	--	--	184	41
Other Liquids	--	5,568	--	113,033	353,059	32,386	-2,331	503,869	1,201	1,307	70,004
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	5,586	--	1,084	57,646	546	363	63,571	928	0	8,479
Hydrogen	--	--	--	--	--	530	--	530	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	6	--	--	6	0	--
Renewable Fuels (including Fuel Ethanol)	--	5,586	--	1,084	57,646	10	363	63,041	922	0	8,479
Fuel Ethanol	--	4,397	--	--	55,951	1,785	375	60,925	832	0	6,956
Renewable Fuels Except Fuel Ethanol	--	1,189	--	1,084	1,695	-1,774	-12	2,116	90	0	1,523
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	10,129	157	--	46	8,788	145	1,307	5,251
Motor Gasoline Blend Comp. (MGBC)	--	-18	--	101,820	295,256	31,840	-2,740	431,510	128	0	56,274
Reformulated	--	--	--	27,871	45,711	18,364	1,029	90,910	7	0	19,861
Conventional	--	-18	--	73,949	249,545	13,475	-3,769	340,600	120	0	36,413
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	690,882	70,401	292,797	-31,905	1,816	--	25,852	994,507	74,890
Finished Motor Gasoline	--	--	588,377	9,799	36,450	-33,624	-426	--	2,523	598,905	3,454
Reformulated	--	--	233,632	--	--	-17,231	-13	--	--	216,414	17
Conventional	--	--	354,745	9,799	36,450	-16,393	-413	--	2,523	382,491	3,437
Finished Aviation Gasoline	--	--	--	25	482	--	-16	--	--	523	114
Kerosene-Type Jet Fuel	--	--	17,637	10,250	89,933	--	1,169	--	3,293	113,358	9,045
Kerosene	--	--	148	101	533	--	-789	--	280	1,291	1,263
Distillate Fuel Oil ⁶	--	--	55,509	31,166	154,158	1,719	-567	--	8,477	234,642	44,305
15 ppm sulfur and under	--	--	51,321	30,016	145,776	1,719	1,600	--	5,774	221,459	39,278
Greater than 15 ppm to 500 ppm sulfur	--	--	1,398	565	88	--	-1,306	--	2,179	1,178	1,296
Greater than 500 ppm sulfur	--	--	2,790	585	8,294	--	-861	--	525	12,005	3,731
Residual Fuel Oil ⁷	--	--	7,174	13,346	-347	--	1,360	--	6,457	12,356	7,393
Less than 0.31 percent sulfur	--	--	1,805	939	--	--	743	--	NA	NA	1,644
0.31 to 1.00 percent sulfur	--	--	2,693	1,623	--	--	-12	--	NA	NA	1,417
Greater than 1.00 percent sulfur	--	--	2,676	10,784	-347	--	629	--	NA	NA	4,332
Petrochemical Feedstocks	--	--	391	18	-37	--	-22	--	--	394	58
Naphtha for Petro. Feed. Use	--	--	391	7	--	--	-22	--	--	420	58
Other Oils for Petro. Feed. Use	--	--	--	11	-37	--	--	--	--	-26	--
Special Naphthas	--	--	113	2	--	--	0	--	--	115	43
Lubricants	--	--	2,292	999	2,640	--	-213	--	1,258	4,886	1,088
Waxes	--	--	64	428	--	--	-36	--	344	184	340
Petroleum Coke	--	--	4,621	21	3,129	--	--	--	2,661	5,110	--
Marketable	--	--	1,267	21	3,129	--	--	--	2,661	1,756	--
Catalyst	--	--	3,354	--	--	--	--	--	--	3,354	--
Asphalt and Road Oil	--	--	6,068	4,246	6,087	--	1,355	--	480	14,565	7,752
Still Gas	--	--	8,070	--	--	--	--	--	--	8,070	--
Miscellaneous Products	--	--	418	--	-231	--	1	--	79	107	35
Total	109,197	5,482	697,355	326,499	663,978	3,616	2,134	688,830	59,974	1,055,188	168,235

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as "Unaccounted For Crude Oil." Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 7. PAD District 1 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, June 2019
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	67	--	--	794	207	-44	-11	1,035	0	0
Hydrocarbon Gas Liquids	579	-1	47	36	-129	--	38	14	272	208
Natural Gas Liquids	579	-1	36	28	-139	--	38	14	272	179
Ethane	239	--	--	--	--	--	9	--	61	1
Propane	194	--	19	20	46	--	30	--	--	97
Normal Butane	64	--	17	1	-4	--	1	0	57	18
Isobutane	26	--	0	7	-5	--	0	11	0	17
Natural Gasoline	56	-1	--	--	-9	--	-2	2	2	45
Refinery Olefins	--	--	11	8	--	--	0	--	--	29
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	14	8	10	--	0	--	--	32
Normal Butylene	--	--	-4	--	--	--	1	--	--	-4
Isobutylene	--	--	1	--	--	--	0	--	--	1
Other Liquids	--	32	--	664	1,946	55	-186	2,875	3	5
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	32	--	3	271	35	-14	354	2	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	32	--	3	271	31	-14	351	2	0
Fuel Ethanol ⁶	--	27	--	--	267	44	-7	343	2	0
Renewable Fuels Except Fuel Ethanol	--	5	--	3	4	-13	-7	8	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	50	0	--	-12	56	1	5
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	0	--	611	1,674	20	-160	2,465	0	0
Reformulated	--	--	--	170	288	61	-66	585	0	0
Conventional	--	0	--	442	1,387	-41	-93	1,880	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,931	265	1,516	-51	125	--	144	5,392
Finished Motor Gasoline	--	--	3,324	30	78	-64	-39	--	34	3,373
Reformulated	--	--	1,340	--	--	-57	0	--	--	1,284
Conventional	--	--	1,983	30	78	-7	-39	--	34	2,088
Finished Aviation Gasoline	--	--	--	0	2	--	-1	--	--	3
Kerosene-Type Jet Fuel	--	--	125	69	493	--	25	--	20	641
Kerosene	--	--	-1	--	--	--	-4	--	3	0
Distillate Fuel Oil ⁶	--	--	324	75	862	13	120	--	64	1,089
15 ppm sulfur and under	--	--	319	62	826	13	138	--	51	1,030
Greater than 15 ppm to 500 ppm sulfur	--	--	6	1	--	--	-1	--	--	8
Greater than 500 ppm sulfur	--	--	-1	11	36	--	-17	--	13	51
Residual Fuel Oil ⁷	--	--	39	60	--	--	37	--	10	51
Less than 0.31 percent sulfur	--	--	0	--	--	--	6	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	25	17	--	--	21	--	NA	NA
Greater than 1.00 percent sulfur	--	--	14	43	--	--	10	--	NA	NA
Petrochemical Feedstocks	--	--	2	0	4	--	-1	--	--	7
Naphtha for Petro. Feed. Use	--	--	2	0	--	--	-1	--	--	3
Other Oils for Petro. Feed. Use	--	--	--	--	4	--	--	--	--	4
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	13	5	20	--	6	--	7	24
Waxes	--	--	1	1	--	--	0	--	2	0
Petroleum Coke	--	--	27	0	23	--	--	--	0	50
Marketable	--	--	6	0	23	--	--	--	0	29
Catalyst	--	--	21	--	--	--	--	--	--	21
Asphalt and Road Oil	--	--	33	26	35	--	-18	--	2	111
Still Gas	--	--	42	--	--	--	--	--	--	42
Miscellaneous Products	--	--	2	--	--	--	0	--	0	2
Total	646	32	3,978	1,759	3,540	-41	-34	3,924	419	5,606

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 8. PAD District 1 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-June 2019
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	63	--	--	735	185	17	17	978	4	0
Hydrocarbon Gas Liquids	541	0	36	56	-85	--	-3	44	178	328
Natural Gas Liquids	541	0	23	48	-95	--	-2	44	178	296
Ethane	219	--	--	--	--	--	-1	--	25	12
Propane	185	--	18	40	96	--	-6	--	--	234
Normal Butane	58	--	5	2	6	--	6	24	36	5
Isobutane	26	--	0	6	-6	--	0	13	0	13
Natural Gasoline	52	0	--	--	-8	--	-1	6	5	33
Refinery Olefins	--	--	12	8	--	--	-1	--	--	32
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	12	8	11	--	0	--	--	31
Normal Butylene	--	--	-1	--	--	--	0	--	--	0
Isobutylene	--	--	1	--	--	--	0	--	--	1
Other Liquids	--	31	--	624	1,951	179	-13	2,784	7	7
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	31	--	6	318	3	2	351	5	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	31	--	6	318	0	2	348	5	0
Fuel Ethanol ⁶	--	24	--	--	309	10	2	337	5	0
Renewable Fuels Except Fuel Ethanol	--	7	--	6	9	-10	0	12	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	56	1	--	0	49	1	7
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	0	--	563	1,631	176	-15	2,384	1	0
Reformulated	--	--	--	154	253	101	6	502	0	0
Conventional	--	0	--	409	1,379	74	-21	1,882	1	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,817	389	1,618	-176	10	--	143	5,495
Finished Motor Gasoline	--	--	3,251	54	201	-186	-2	--	14	3,309
Reformulated	--	--	1,291	--	--	-95	0	--	--	1,196
Conventional	--	--	1,960	54	201	-91	-2	--	14	2,113
Finished Aviation Gasoline	--	--	--	0	3	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	97	57	497	--	6	--	18	626
Kerosene	--	--	1	1	3	--	-4	--	2	7
Distillate Fuel Oil ⁶	--	--	307	172	852	9	-3	--	47	1,296
15 ppm sulfur and under	--	--	284	166	805	9	9	--	32	1,224
Greater than 15 ppm to 500 ppm sulfur	--	--	8	3	0	--	-7	--	12	7
Greater than 500 ppm sulfur	--	--	15	3	46	--	-5	--	3	66
Residual Fuel Oil ⁷	--	--	40	74	-2	--	8	--	36	68
Less than 0.31 percent sulfur	--	--	10	5	--	--	4	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	15	9	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	15	60	-2	--	3	--	NA	NA
Petrochemical Feedstocks	--	--	2	0	0	--	0	--	--	2
Naphtha for Petro. Feed. Use	--	--	2	0	--	--	0	--	--	2
Other Oils for Petro. Feed. Use	--	--	--	0	0	--	--	--	--	0
Special Naphthas	--	--	1	0	--	--	0	--	--	1
Lubricants	--	--	13	6	15	--	-1	--	7	27
Waxes	--	--	0	2	--	--	0	--	2	1
Petroleum Coke	--	--	26	0	17	--	--	--	15	28
Marketable	--	--	7	0	17	--	--	--	15	10
Catalyst	--	--	19	--	--	--	--	--	--	19
Asphalt and Road Oil	--	--	34	23	34	--	7	--	3	80
Still Gas	--	--	45	--	--	--	--	--	--	45
Miscellaneous Products	--	--	2	--	-1	--	0	--	0	1
Total	603	30	3,853	1,804	3,668	20	12	3,806	331	5,830

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 9. PAD District 2 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, June 2019
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	65,299	--	--	86,567	-28,004	-3,564	-1,179	117,498	3,979	0	141,807
Hydrocarbon Gas Liquids	30,091	-583	5,981	2,128	-9,562	--	5,644	2,169	6,205	14,037	52,494
Natural Gas Liquids	30,091	-583	4,748	1,938	-9,036	--	5,522	2,169	6,205	13,262	51,991
Ethane	10,339	--	--	--	--	--	-772	--	2,591	4,807	4,652
Propane	10,642	--	2,324	1,433	-5,037	--	3,996	--	86	5,280	20,004
Normal Butane	3,776	--	2,440	342	-3,305	--	2,763	42	85	363	15,149
Isobutane	1,711	--	-16	159	-453	--	-325	1,241	0	485	2,708
Natural Gasoline	3,623	-583	--	4	3,472	--	-140	886	3,442	2,328	9,478
Refinery Olefins	--	--	1,233	190	--	--	122	--	--	775	503
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1,120	141	--	--	49	--	--	686	384
Normal Butylene	--	--	113	49	--	--	73	--	--	89	119
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	31,859	--	510	-6,677	-1,126	2,971	20,413	2,752	-1,570	66,872
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	31,860	--	84	-18,970	-2,232	359	9,511	873	0	9,546
Hydrogen	--	--	--	--	--	1,159	--	1,159	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	0	--	1	0	3
Renewable Fuels (including Fuel Ethanol)	--	31,860	--	84	-18,970	-3,420	361	8,321	872	0	9,503
Fuel Ethanol	--	29,541	--	--	-18,643	-2,177	368	7,683	669	0	8,523
Renewable Fuels Except Fuel Ethanol	--	2,319	--	84	-327	-1,243	-7	638	203	0	980
Other Hydrocarbons	--	--	--	--	--	29	-2	31	--	0	40
Unfinished Oils	--	--	--	76	-1,109	--	547	-1,709	1,699	-1,570	13,790
Motor Gasoline Blend.Comp. (MGBC)	--	-1	--	350	13,402	1,105	2,065	12,611	180	0	43,536
Reformulated	--	--	--	--	6,960	-4,505	-137	2,592	--	0	6,299
Conventional	--	-1	--	350	6,442	5,610	2,202	10,019	180	0	37,237
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	133	140,628	1,014	3,118	2,330	-1,456	--	1,390	147,290	63,331
Finished Motor Gasoline	--	133	80,414	--	1,230	1,072	139	--	126	82,584	6,048
Reformulated	--	--	10,903	--	--	5,067	--	--	--	15,970	--
Conventional	--	133	69,511	--	1,230	-3,994	139	--	126	66,615	6,048
Finished Aviation Gasoline	--	--	30	5	--	--	-15	--	--	50	184
Kerosene-Type Jet Fuel	--	--	8,545	--	899	--	-613	--	38	10,019	6,934
Kerosene	--	--	67	--	--	--	18	--	1	48	190
Distillate Fuel Oil	--	--	35,141	340	2,244	1,258	-338	--	263	39,058	32,979
15 ppm sulfur and under	--	--	35,285	276	2,146	1,258	-150	--	0	39,114	32,135
Greater than 15 ppm to 500 ppm sulfur	--	--	-131	--	98	--	-91	--	92	-34	459
Greater than 500 ppm sulfur	--	--	-13	64	--	--	-97	--	170	-22	385
Residual Fuel Oil ⁶	--	--	1,202	113	-110	--	210	--	217	778	1,385
Less than 0.31 percent sulfur	--	--	78	--	--	--	-24	--	NA	NA	61
0.31 to 1.00 percent sulfur	--	--	91	6	--	--	25	--	NA	NA	269
Greater than 1.00 percent sulfur	--	--	1,033	107	-110	--	209	--	NA	NA	1,055
Petrochemical Feedstocks	--	--	840	168	--	--	-4	--	--	1,012	534
Naphtha for Petro. Feed. Use	--	--	489	83	--	--	-13	--	--	585	434
Other Oils for Petro. Feed. Use	--	--	351	85	--	--	9	--	--	427	100
Special Naphthas	--	--	-15	9	10	--	-2	--	--	6	127
Lubricants	--	--	193	124	118	--	20	--	173	242	548
Waxes	--	--	30	3	--	--	4	--	27	2	46
Petroleum Coke	--	--	5,331	24	-588	--	-65	--	422	4,410	1,612
Marketable	--	--	4,002	24	-588	--	-65	--	422	3,081	1,612
Catalyst	--	--	1,329	--	--	--	--	--	--	1,329	--
Asphalt and Road Oil	--	--	4,050	228	-674	--	-815	--	122	4,297	12,627
Still Gas	--	--	4,357	--	--	--	--	--	--	4,357	--
Miscellaneous Products	--	--	443	--	-10	--	5	--	2	426	117
Total	95,390	31,409	146,609	90,219	-41,125	-2,360	5,980	140,080	14,326	159,757	324,504

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 10. PAD District 2 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-June 2019
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil	391,610	--	--	512,076	-163,551	-34,340	9,705	667,784	28,305	0	141,807
Hydrocarbon Gas Liquids	183,036	-3,375	22,797	16,986	-56,746	--	2,463	15,464	42,678	102,093	52,494
Natural Gas Liquids	183,036	-3,375	15,037	15,298	-52,988	--	2,389	15,464	42,678	96,477	51,991
Ethane	64,201	--	--	--	--	--	-539	--	15,560	27,336	4,652
Propane	65,085	--	13,369	11,194	-37,779	--	-655	--	553	51,971	20,004
Normal Butane	22,404	--	10	3,178	-14,343	--	3,760	3,079	1,267	5,018	15,149
Isobutane	10,932	--	-199	900	-969	--	756	8,201	5	1,702	2,708
Natural Gasoline	20,414	-3,375	--	26	21,947	--	-933	4,184	25,312	10,449	9,478
Refinery Olefins	--	--	7,760	1,688	--	--	74	--	--	5,616	503
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	7,279	1,320	--	--	29	--	--	4,812	384
Normal Butylene	--	--	436	338	--	--	115	--	--	659	119
Isobutylene	--	--	45	--	--	--	-70	--	--	145	0
Other Liquids	--	187,123	--	3,158	-70,996	-9,056	-5,078	109,476	14,587	-8,754	66,872
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	187,132	--	528	-121,849	-8,078	-75	53,922	3,887	0	9,546
Hydrogen	--	--	--	--	--	6,725	--	6,725	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	8	-1	--	9	0	3
Renewable Fuels (including Fuel Ethanol)	--	187,132	--	528	-121,849	-14,986	-93	47,041	3,878	0	9,503
Fuel Ethanol	--	173,275	--	--	-117,293	-8,846	-156	44,200	3,092	0	8,523
Renewable Fuels Except Fuel Ethanol	--	13,857	--	528	-4,556	-6,141	63	2,841	785	0	980
Other Hydrocarbons	--	--	--	--	--	175	19	156	--	0	40
Unfinished Oils	--	--	--	539	-2,878	--	1,046	-4,266	9,635	-8,754	13,790
Motor Gasoline Blend.Comp. (MGBC)	--	-9	--	2,091	53,731	-978	-6,049	59,820	1,064	0	43,536
Reformulated	--	-3	--	--	19,718	-8,642	110	10,963	--	0	6,299
Conventional	--	-6	--	2,091	34,013	7,664	-6,159	48,857	1,064	0	37,237
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	696	808,984	5,302	12,158	16,094	-720	--	6,746	837,209	63,331
Finished Motor Gasoline	--	696	462,142	1	2,103	9,824	-456	--	837	474,385	6,048
Reformulated	--	--	64,569	--	--	10,419	--	--	--	74,988	--
Conventional	--	696	397,573	1	2,103	-595	-456	--	837	399,397	6,048
Finished Aviation Gasoline	--	--	235	18	51	--	18	--	--	286	184
Kerosene-Type Jet Fuel	--	--	47,687	--	5,806	--	-603	--	308	53,788	6,934
Kerosene	--	--	687	--	20	--	-91	--	4	794	190
Distillate Fuel Oil	--	--	202,203	1,651	15,668	6,271	-674	--	1,226	225,241	32,979
15 ppm sulfur and under	--	--	202,260	1,195	14,957	6,271	-799	--	3	225,478	32,135
Greater than 15 ppm to 500 ppm sulfur	--	--	409	--	711	--	77	--	600	443	459
Greater than 500 ppm sulfur	--	--	-466	456	--	--	48	--	622	-680	385
Residual Fuel Oil ⁶	--	--	7,519	421	-3,703	--	105	--	943	3,189	1,385
Less than 0.31 percent sulfur	--	--	398	--	-263	--	4	--	NA	NA	61
0.31 to 1.00 percent sulfur	--	--	1,044	143	-115	--	-5	--	NA	NA	269
Greater than 1.00 percent sulfur	--	--	6,077	278	-3,325	--	106	--	NA	NA	1,055
Petrochemical Feedstocks	--	--	5,494	968	-403	--	-31	--	--	6,090	534
Naphtha for Petro. Feed. Use	--	--	3,602	491	-329	--	7	--	--	3,757	434
Other Oils for Petro. Feed. Use	--	--	1,892	477	-74	--	-38	--	--	2,333	100
Special Naphthas	--	--	-23	36	126	--	-56	--	--	195	127
Lubricants	--	--	1,040	694	821	--	-279	--	1,093	1,741	548
Waxes	--	--	160	34	--	--	18	--	192	-16	46
Petroleum Coke	--	--	31,577	166	-4,313	--	274	--	1,512	25,644	1,612
Marketable	--	--	23,293	166	-4,313	--	274	--	1,512	17,360	1,612
Catalyst	--	--	8,284	--	--	--	--	--	--	8,284	--
Asphalt and Road Oil	--	--	22,657	1,313	-4,011	--	1,055	--	614	18,291	12,627
Still Gas	--	--	24,949	--	--	--	--	--	--	24,949	--
Miscellaneous Products	--	--	2,657	--	-7	--	0	--	17	2,633	117
Total	574,646	184,444	831,781	537,522	-279,134	-27,302	6,370	792,724	92,316	930,547	324,504

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 11. PAD District 2 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, June 2019
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	2,177	--	--	2,886	-933	-119	-39	3,917	133	0
Hydrocarbon Gas Liquids	1,003	-19	199	71	-319	--	188	72	207	468
Natural Gas Liquids	1,003	-19	158	65	-301	--	184	72	207	442
Ethane	345	--	--	--	--	--	-26	--	86	160
Propane	355	--	77	48	-168	--	133	--	3	176
Normal Butane	126	--	4,354	11	-110	--	92	1	3	12
Isobutane	57	--	-1	5	-15	--	-11	41	0	16
Natural Gasoline	121	-19	--	0	116	--	-5	30	115	78
Refinery Olefins	--	--	41	6	--	--	4	--	--	26
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	37	5	-18	--	2	--	--	23
Normal Butylene	--	--	4	2	--	--	2	--	--	3
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	1,062	--	17	-223	-38	99	680	92	-52
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,062	--	3	-632	-74	12	317	29	0
Hydrogen	--	--	--	--	--	39	--	39	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,062	--	3	-632	-114	12	277	29	0
Fuel Ethanol	--	985	--	--	-621	-73	12	256	22	0
Renewable Fuels Except Fuel Ethanol	--	77	--	3	-11	-41	0	21	7	0
Other Hydrocarbons	--	--	--	--	--	1	0	1	--	0
Unfinished Oils	--	--	--	3	-37	--	18	-57	57	-52
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	12	447	37	69	420	6	0
Reformulated	--	--	--	--	232	-150	-5	86	--	0
Conventional	--	0	--	12	215	187	73	334	6	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	4	4,688	34	104	78	-49	--	46	4,910
Finished Motor Gasoline	--	4	2,680	--	41	36	5	--	4	2,753
Reformulated	--	--	363	--	--	169	--	--	--	532
Conventional	--	4	2,317	--	41	-133	5	--	4	2,220
Finished Aviation Gasoline	--	--	1	0	--	--	-1	--	--	2
Kerosene-Type Jet Fuel	--	--	285	--	30	--	-20	--	1	334
Kerosene	--	--	2	--	--	--	1	--	0	2
Distillate Fuel Oil	--	--	1,171	11	75	42	-11	--	9	1,302
15 ppm sulfur and under	--	--	1,176	9	72	42	-5	--	0	1,304
Greater than 15 ppm to 500 ppm sulfur	--	--	-4	--	3	--	-3	--	3	-1
Greater than 500 ppm sulfur	--	--	0	2	--	--	-3	--	6	-1
Residual Fuel Oil ⁶	--	--	40	4	-4	--	7	--	7	26
Less than 0.31 percent sulfur	--	--	3	--	--	--	-1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	3	0	--	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	34	4	-4	--	7	--	NA	NA
Petrochemical Feedstocks	--	--	28	6	--	--	0	--	--	34
Naphtha for Petro. Feed. Use	--	--	16	3	--	--	0	--	--	20
Other Oils for Petro. Feed. Use	--	--	12	3	--	--	0	--	--	14
Special Naphthas	--	--	-1	0	0	--	0	--	--	0
Lubricants	--	--	6	4	4	--	1	--	6	8
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	178	1	-20	--	-2	--	14	147
Marketable	--	--	133	1	-20	--	-2	--	14	103
Catalyst	--	--	44	--	--	--	--	--	--	44
Asphalt and Road Oil	--	--	135	8	-22	--	-27	--	4	143
Still Gas	--	--	145	--	--	--	--	--	--	145
Miscellaneous Products	--	--	15	--	0	--	0	--	0	14
Total	3,180	1,047	4,887	3,007	-1,371	-79	199	4,669	478	5,325

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 12. PAD District 2 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-June 2019
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	2,164	--	--	2,829	-904	-190	54	3,689	156	0
Hydrocarbon Gas Liquids	1,011	-19	126	94	-314	--	14	85	236	564
Natural Gas Liquids	1,011	-19	83	85	-293	--	13	85	236	533
Ethane	355	--	--	--	--	--	-3	--	86	151
Propane	360	--	74	62	-209	--	-4	--	3	287
Normal Butane	124	--	10	18	-79	--	21	17	7	28
Isobutane	60	--	-1	5	-5	--	4	45	0	9
Natural Gasoline	113	-19	--	0	121	--	-5	23	140	58
Refinery Olefins	--	--	43	9	--	--	0	--	--	31
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	40	7	-21	--	0	--	--	27
Normal Butylene	--	--	2	2	--	--	1	--	--	4
Isobutylene	--	--	0	--	--	--	0	--	--	1
Other Liquids	--	1,034	--	17	-392	-50	-28	605	81	-48
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,034	--	3	-673	-45	0	298	21	0
Hydrogen	--	--	--	--	--	37	--	37	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,034	--	3	-673	-83	-1	260	21	0
Fuel Ethanol	--	957	--	--	-648	-49	-1	244	17	0
Renewable Fuels Except Fuel Ethanol	--	77	--	3	-25	-34	0	16	4	0
Other Hydrocarbons	--	--	--	--	--	1	0	1	--	0
Unfinished Oils	--	--	--	3	-16	--	6	-24	53	-48
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	12	297	-5	-33	330	6	0
Reformulated	--	0	--	--	109	-48	1	61	--	0
Conventional	--	0	--	12	188	42	-34	270	6	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	4	4,470	29	67	89	-4	--	37	4,625
Finished Motor Gasoline	--	4	2,553	0	12	54	-3	--	5	2,621
Reformulated	--	--	357	--	--	58	--	--	--	414
Conventional	--	4	2,197	0	12	-3	-3	--	5	2,207
Finished Aviation Gasoline	--	--	1	0	0	--	0	--	--	2
Kerosene-Type Jet Fuel	--	--	263	--	32	--	-3	--	2	297
Kerosene	--	--	4	--	0	--	-1	--	0	4
Distillate Fuel Oil	--	--	1,117	9	87	35	-4	--	7	1,244
15 ppm sulfur and under	--	--	1,117	7	83	35	-4	--	0	1,246
Greater than 15 ppm to 500 ppm sulfur	--	--	2	--	4	--	0	--	3	2
Greater than 500 ppm sulfur	--	--	-3	3	--	--	0	--	3	-4
Residual Fuel Oil ⁶	--	--	42	2	-20	--	1	--	5	18
Less than 0.31 percent sulfur	--	--	2	--	-1	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	6	1	-1	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	34	2	-18	--	1	--	NA	NA
Petrochemical Feedstocks	--	--	30	5	-2	--	0	--	--	34
Naphtha for Petro. Feed. Use	--	--	20	3	-2	--	0	--	--	21
Other Oils for Petro. Feed. Use	--	--	10	3	0	--	0	--	--	13
Special Naphthas	--	--	0	0	1	--	0	--	--	1
Lubricants	--	--	6	4	5	--	-2	--	6	10
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	174	1	-24	--	2	--	8	142
Marketable	--	--	129	1	-24	--	2	--	8	96
Catalyst	--	--	46	--	--	--	--	--	--	46
Asphalt and Road Oil	--	--	125	7	-22	--	6	--	3	101
Still Gas	--	--	138	--	--	--	--	--	--	138
Miscellaneous Products	--	--	15	--	0	--	0	--	0	15
Total	3,175	1,019	4,595	2,970	-1,542	-151	35	4,380	510	5,141

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 13. PAD District 3 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, June 2019
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil⁶	239,055	--	--	52,143	37,958	24,337	-9,878	273,671	89,700	0	879,742
Hydrocarbon Gas Liquids	81,530	-15	15,529	85	23,168	--	14,909	7,727	40,239	57,422	160,433
Natural Gas Liquids	81,530	-15	8,821	--	22,950	--	15,248	7,727	40,239	50,072	153,691
Ethane	34,107	--	131	--	--	--	4,438	--	3,817	37,414	54,355
Propane	25,075	--	4,775	--	7,230	--	3,090	--	29,711	4,279	44,376
Normal Butane	4,926	--	4,354	--	4,614	--	6,694	485	6,496	219	37,475
Isobutane	8,578	--	-439	--	1,355	--	27	3,875	192	5,400	7,889
Natural Gasoline	8,844	-15	--	--	-1,680	--	999	3,367	22	2,761	9,596
Refinery Olefins	--	--	6,708	85	--	--	-339	--	--	7,350	6,742
Ethylene	--	--	--	--	--	--	0	--	--	0	0
Propylene	--	--	7,020	--	--	--	-147	--	--	7,385	6,112
Normal Butylene	--	--	-268	85	--	--	-192	--	--	9	630
Isobutylene	--	--	-44	--	--	--	0	--	--	-44	0
Other Liquids	--	3,856	--	16,574	-61,935	4,212	-4,204	-46,717	11,673	1,955	133,601
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	3,856	--	129	5,503	2,719	-793	8,462	4,538	0	7,631
Hydrogen	--	--	--	--	--	3,596	--	3,596	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,565	--	129	--	-561	-231	4	2,360	0	1,723
Renewable Fuels (including Fuel Ethanol)	--	1,291	--	--	5,503	-316	-562	4,862	2,178	0	5,908
Fuel Ethanol	--	672	--	--	5,713	-160	-535	4,587	2,173	0	4,088
Renewable Fuels Except Fuel Ethanol	--	619	--	--	-210	-157	-27	275	5	0	1,820
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	14,854	1,097	--	-1,680	10,809	4,849	1,973	51,345
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	1,591	-68,535	1,493	-1,740	-65,997	2,286	0	74,598
Reformulated	--	--	--	--	-17,751	4,170	-1,034	-12,576	29	0	11,857
Conventional	--	--	--	1,591	-50,784	-2,677	-706	-53,421	2,257	0	62,741
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	9	9	--	-18	27
Finished Petroleum Products	--	--	237,453	2,900	-49,160	-651	-3,389	--	80,986	112,945	99,304
Finished Motor Gasoline	--	--	68,955	--	-3,432	-1,334	-336	--	19,199	45,326	7,806
Reformulated	--	--	14,247	--	--	-4,177	--	--	--	10,070	--
Conventional	--	--	54,708	--	-3,432	2,843	-336	--	19,199	35,256	7,806
Finished Aviation Gasoline	--	--	261	--	-45	--	-73	--	--	289	490
Kerosene-Type Jet Fuel	--	--	28,283	--	-16,674	--	208	--	5,225	6,176	14,174
Kerosene	--	--	-79	--	--	--	-104	--	63	-38	353
Distillate Fuel Oil	--	--	91,952	330	-28,573	683	-1,897	--	39,488	26,801	36,606
15 ppm sulfur and under	--	--	82,950	--	-27,381	683	-1,141	--	32,542	24,851	31,060
Greater than 15 ppm to 500 ppm sulfur	--	--	3,375	--	-98	--	432	--	2,902	-57	1,621
Greater than 500 ppm sulfur	--	--	5,627	330	-1,094	--	-1,188	--	4,044	2,007	3,925
Residual Fuel Oil ⁷	--	--	6,312	505	110	--	-1,349	--	4,598	3,678	16,061
Less than 0.31 percent sulfur	--	--	1,356	--	--	--	586	--	NA	NA	1,886
0.31 to 1.00 percent sulfur	--	--	517	--	--	--	-916	--	NA	NA	2,219
Greater than 1.00 percent sulfur	--	--	4,439	505	110	--	-1,019	--	NA	NA	11,956
Petrochemical Feedstocks	--	--	7,880	283	-109	--	-325	--	--	8,379	2,448
Naphtha for Petro. Feed. Use	--	--	5,162	283	--	--	-234	--	--	5,679	1,773
Other Oils for Petro. Feed. Use	--	--	2,718	--	-109	--	-91	--	--	2,700	675
Special Naphthas	--	--	914	569	-10	--	55	--	--	1,418	982
Lubricants	--	--	3,772	1,062	-709	--	121	--	2,145	1,859	7,956
Waxes	--	--	104	19	--	--	-12	--	20	115	277
Petroleum Coke	--	--	14,239	132	553	--	403	--	9,572	4,949	6,029
Marketable	--	--	10,701	132	553	--	403	--	9,572	1,411	6,029
Catalyst	--	--	3,538	--	--	--	--	--	--	3,538	--
Asphalt and Road Oil	--	--	2,698	--	-281	--	-97	--	611	1,902	5,746
Still Gas	--	--	10,637	--	--	--	--	--	--	10,637	--
Miscellaneous Products	--	--	1,525	--	10	--	17	--	65	1,453	376
Total	320,585	3,841	252,982	71,702	-49,970	27,897	-2,562	234,681	222,598	172,322	1,273,080

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production estimates are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 14. PAD District 3 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-June 2019
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil⁶	1,422,921	--	--	340,211	208,920	109,532	-748	1,597,575	484,757	0	879,742
Hydrocarbon Gas Liquids	486,252	-70	79,490	576	133,576	--	38,003	53,459	224,942	383,420	160,433
Natural Gas Liquids	486,252	-70	40,327	--	131,736	--	38,613	53,459	224,942	341,231	153,691
Ethane	212,432	--	839	--	--	--	11,214	--	28,699	249,511	54,355
Propane	147,909	--	28,213	--	41,019	--	10,173	--	160,244	46,724	44,376
Normal Butane	27,465	--	13,550	--	20,027	--	15,150	13,893	34,979	-2,980	37,475
Isobutane	50,752	--	-2,275	--	6,190	--	2,216	22,399	833	29,219	7,889
Natural Gasoline	47,694	-70	--	--	-11,653	--	-140	17,167	187	18,757	9,596
Refinery Olefins	--	--	39,163	576	--	--	-610	--	--	42,189	6,742
Ethylene	--	--	--	--	--	--	0	--	--	0	0
Propylene	--	--	40,552	--	--	--	-345	--	--	42,737	6,112
Normal Butylene	--	--	-1,171	576	--	--	-265	--	--	-330	630
Isobutylene	--	--	-218	--	--	--	0	--	--	-218	0
Other Liquids	--	21,658	--	93,861	-341,205	24,577	1,438	-285,880	72,918	10,415	133,601
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	21,658	--	705	34,084	18,973	-578	51,456	24,542	0	7,631
Hydrogen	--	--	--	--	--	22,553	--	22,553	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	14,494	--	565	--	-3,571	176	30	11,282	0	1,723
Renewable Fuels (including Fuel Ethanol)	--	7,164	--	113	34,084	18	-754	28,873	13,260	0	5,908
Fuel Ethanol	--	3,211	--	--	33,805	2,416	-465	26,894	13,002	0	4,088
Renewable Fuels Except Fuel Ethanol	--	3,953	--	113	279	-2,397	-289	1,979	258	0	1,820
Other Hydrocarbons	--	--	--	27	--	-27	--	--	--	0	--
Unfinished Oils	--	--	--	79,493	2,721	--	6,385	33,786	31,598	10,445	51,345
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	13,663	-378,010	5,603	-4,365	-371,156	16,777	0	74,598
Reformulated	--	--	--	325	-79,267	31,317	-459	-47,250	84	0	11,857
Conventional	--	--	--	13,338	-298,743	-25,713	-3,906	-323,906	16,694	0	62,741
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	-4	34	--	-30	27
Finished Petroleum Products	--	--	1,393,578	20,989	-312,049	-3,900	-12,993	--	493,618	617,993	99,304
Finished Motor Gasoline	--	--	421,287	512	-37,931	-8,019	-3,845	--	134,611	245,084	7,806
Reformulated	--	--	84,610	--	--	-34,193	0	--	--	50,417	--
Conventional	--	--	336,677	512	-37,931	26,175	-3,845	--	134,611	194,667	7,806
Finished Aviation Gasoline	--	--	1,708	59	-533	--	55	--	--	1,179	490
Kerosene-Type Jet Fuel	--	--	166,548	30	-102,022	--	-1,263	--	29,284	36,535	14,174
Kerosene	--	--	307	--	-553	--	166	--	269	-681	353
Distillate Fuel Oil	--	--	527,983	1,107	-174,136	4,118	-6,582	--	203,323	162,331	36,606
15 ppm sulfur and under	--	--	474,409	516	-165,043	4,118	-4,904	--	165,408	153,496	31,060
Greater than 15 ppm to 500 ppm sulfur	--	--	20,033	--	-799	--	-61	--	17,351	1,944	1,621
Greater than 500 ppm sulfur	--	--	33,541	591	-8,294	--	-1,617	--	20,564	6,891	3,925
Residual Fuel Oil ⁷	--	--	30,263	8,457	4,050	--	-190	--	33,585	9,375	16,061
Less than 0.31 percent sulfur	--	--	6,964	1,591	263	--	986	--	NA	NA	1,886
0.31 to 1.00 percent sulfur	--	--	2,974	578	115	--	-320	--	NA	NA	2,219
Greater than 1.00 percent sulfur	--	--	20,325	6,288	3,672	--	-856	--	NA	NA	11,956
Petrochemical Feedstocks	--	--	47,529	1,884	440	--	-306	--	--	50,159	2,448
Naphtha for Petro. Feed. Use	--	--	31,518	1,745	329	--	-109	--	--	33,701	1,773
Other Oils for Petro. Feed. Use	--	--	16,011	139	111	--	-197	--	--	16,458	675
Special Naphthas	--	--	5,219	2,425	-126	--	-196	--	--	7,714	982
Lubricants	--	--	22,621	5,500	-3,324	--	-2,602	--	16,160	11,239	7,956
Waxes	--	--	599	165	--	--	5	--	153	606	277
Petroleum Coke	--	--	83,071	850	3,512	--	1,133	--	72,709	13,591	6,029
Marketable	--	--	62,561	850	3,512	--	1,133	--	72,709	-6,919	6,029
Catalyst	--	--	20,510	--	--	--	--	--	--	20,510	--
Asphalt and Road Oil	--	--	14,913	--	-1,664	--	650	--	3,311	9,288	5,746
Still Gas	--	--	62,103	--	--	--	--	--	--	62,103	--
Miscellaneous Products	--	--	9,427	--	238	--	-18	--	214	9,469	376
Total	1,909,173	21,588	1,473,068	455,637	-310,758	130,208	25,700	1,365,154	1,276,235	1,011,827	1,273,080

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 15. PAD District 3 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, June 2019
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	7,969	--	--	1,738	1,265	811	-329	9,122	2,990	0
Hydrocarbon Gas Liquids	2,718	-1	518	3	772	--	497	258	1,341	1,914
Natural Gas Liquids	2,718	-1	294	--	765	--	508	258	1,341	1,669
Ethane	1,137	--	4	--	--	--	148	--	127	1,247
Propane	836	--	159	--	241	--	103	--	990	143
Normal Butane	164	--	145	--	154	--	223	16	217	7
Isobutane	286	--	-15	--	45	--	1	129	6	180
Natural Gasoline	295	-1	--	--	-56	--	33	112	1	92
Refinery Olefins	--	--	224	3	--	--	-11	--	--	245
Ethylene	--	--	--	--	--	--	0	--	--	0
Propylene	--	--	234	--	7	--	-5	--	--	246
Normal Butylene	--	--	-9	3	--	--	-6	--	--	0
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	129	--	552	-2,065	140	-140	-1,557	389	65
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	129	--	4	183	91	-26	282	151	0
Hydrogen	--	--	--	--	--	120	--	120	--	0
Oxygenates (excluding Fuel Ethanol)	--	86	--	4	--	-19	-8	0	79	0
Renewable Fuels (including Fuel Ethanol)	--	43	--	--	183	-11	-19	162	73	0
Fuel Ethanol	--	22	--	--	190	-5	-18	153	72	0
Renewable Fuels Except Fuel Ethanol	--	21	--	--	-7	-5	-1	9	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	495	37	--	-56	360	162	66
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	53	-2,285	50	-58	-2,200	76	0
Reformulated	--	--	--	--	-592	139	-34	-419	1	0
Conventional	--	--	--	53	-1,693	-89	-24	-1,781	75	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	-1
Finished Petroleum Products	--	--	7,915	97	-1,639	-22	-113	--	2,700	3,765
Finished Motor Gasoline	--	--	2,299	--	-114	-44	-11	--	640	1,511
Reformulated	--	--	475	--	--	-139	--	--	--	336
Conventional	--	--	1,824	--	-114	95	-11	--	640	1,175
Finished Aviation Gasoline	--	--	9	--	-2	--	-2	--	--	10
Kerosene-Type Jet Fuel	--	--	943	--	-556	--	7	--	174	206
Kerosene	--	--	-3	--	--	--	-3	--	2	-1
Distillate Fuel Oil	--	--	3,065	11	-952	23	-63	--	1,316	893
15 ppm sulfur and under	--	--	2,765	--	-913	23	-38	--	1,085	828
Greater than 15 ppm to 500 ppm sulfur	--	--	113	--	-3	--	14	--	97	-2
Greater than 500 ppm sulfur	--	--	188	11	-36	--	-40	--	135	67
Residual Fuel Oil ⁷	--	--	210	17	4	--	-45	--	153	123
Less than 0.31 percent sulfur	--	--	45	--	--	--	20	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	17	--	--	--	-31	--	NA	NA
Greater than 1.00 percent sulfur	--	--	148	17	4	--	-34	--	NA	NA
Petrochemical Feedstocks	--	--	263	9	-4	--	-11	--	--	279
Naphtha for Petro. Feed. Use	--	--	172	9	--	--	-8	--	--	189
Other Oils for Petro. Feed. Use	--	--	91	--	-4	--	-3	--	--	90
Special Naphthas	--	--	30	19	0	--	2	--	--	47
Lubricants	--	--	126	35	-24	--	4	--	72	62
Waxes	--	--	3	1	--	--	0	--	1	4
Petroleum Coke	--	--	475	4	18	--	13	--	319	165
Marketable	--	--	357	4	18	--	13	--	319	47
Catalyst	--	--	118	--	--	--	--	--	--	118
Asphalt and Road Oil	--	--	90	--	-9	--	-3	--	20	63
Still Gas	--	--	355	--	--	--	--	--	--	355
Miscellaneous Products	--	--	51	--	0	--	1	--	2	48
Total	10,686	128	8,433	2,390	-1,666	930	-85	7,823	7,420	5,744

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 16. PAD District 3 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-June 2019
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	7,861	--	--	1,880	1,154	605	-4	8,826	2,678	0
Hydrocarbon Gas Liquids	2,686	0	439	3	738	--	210	295	1,243	2,118
Natural Gas Liquids	2,686	0	223	--	728	--	213	295	1,243	1,885
Ethane	1,174	--	5	--	--	--	62	--	159	1,379
Propane	817	--	156	--	227	--	56	--	885	258
Normal Butane	152	--	118	--	111	--	84	77	193	-16
Isobutane	280	--	-13	--	34	--	12	124	5	161
Natural Gasoline	264	0	--	--	-64	--	-1	95	1	104
Refinery Olefins	--	--	216	3	--	--	-3	--	--	233
Ethylene	--	--	--	--	--	--	0	--	--	0
Propylene	--	--	224	--	10	--	-2	--	--	236
Normal Butylene	--	--	-6	3	--	--	-1	--	--	-2
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	120	--	519	-1,885	136	8	-1,579	403	58
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	120	--	4	188	105	-3	284	136	0
Hydrogen	--	--	--	--	--	125	--	125	--	0
Oxygenates (excluding Fuel Ethanol)	--	80	--	3	--	-20	1	0	62	0
Renewable Fuels (including Fuel Ethanol)	--	40	--	1	188	0	-4	160	73	0
Fuel Ethanol	--	18	--	--	187	13	-3	149	72	0
Renewable Fuels Except Fuel Ethanol	--	22	--	1	2	-13	-2	11	1	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	439	15	--	35	187	175	58
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	75	-2,088	31	-24	-2,051	93	0
Reformulated	--	--	--	2	-438	173	-3	-261	0	0
Conventional	--	--	--	74	-1,651	-142	-22	-1,790	92	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	--	7,699	116	-1,724	-22	-72	--	2,727	3,414
Finished Motor Gasoline	--	--	2,328	3	-210	-44	-21	--	744	1,354
Reformulated	--	--	467	--	--	-189	0	--	--	279
Conventional	--	--	1,860	3	-210	145	-21	--	744	1,076
Finished Aviation Gasoline	--	--	9	0	-3	--	0	--	--	7
Kerosene-Type Jet Fuel	--	--	920	0	-564	--	-7	--	162	202
Kerosene	--	--	2	--	-3	--	1	--	1	-4
Distillate Fuel Oil	--	--	2,917	6	-962	23	-36	--	1,123	897
15 ppm sulfur and under	--	--	2,621	3	-912	23	-27	--	914	848
Greater than 15 ppm to 500 ppm sulfur	--	--	111	--	-4	--	0	--	96	11
Greater than 500 ppm sulfur	--	--	185	3	-46	--	-9	--	114	38
Residual Fuel Oil ⁷	--	--	167	47	22	--	-1	--	186	52
Less than 0.31 percent sulfur	--	--	38	9	1	--	5	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	16	3	1	--	-2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	112	35	20	--	-5	--	NA	NA
Petrochemical Feedstocks	--	--	263	10	2	--	-2	--	--	277
Naphtha for Petro. Feed. Use	--	--	174	10	2	--	-1	--	--	186
Other Oils for Petro. Feed. Use	--	--	88	1	1	--	-1	--	--	91
Special Naphthas	--	--	29	13	-1	--	-1	--	--	43
Lubricants	--	--	125	30	-18	--	-14	--	89	62
Waxes	--	--	3	1	--	--	0	--	1	3
Petroleum Coke	--	--	459	5	19	--	6	--	402	75
Marketable	--	--	346	5	19	--	6	--	402	-38
Catalyst	--	--	113	--	--	--	--	--	--	113
Asphalt and Road Oil	--	--	82	--	-9	--	4	--	18	51
Still Gas	--	--	343	--	--	--	--	--	--	343
Miscellaneous Products	--	--	52	--	1	--	0	--	1	52
Total	10,548	119	8,138	2,517	-1,717	719	142	7,542	7,051	5,590

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 17. PAD District 4 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, June 2019
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	28,664	--	--	11,305	-21,497	-1,662	-3,506	20,316	--	0	21,733
Hydrocarbon Gas Liquids	13,127	-10	585	132	-10,419	--	378	472	81	2,484	3,943
Natural Gas Liquids	13,127	-10	507	132	-10,419	--	371	472	81	2,413	3,840
Ethane	3,341	--	--	--	--	--	43	--	--	598	499
Propane	4,822	--	278	119	-3,872	--	61	--	1	1,285	1,334
Normal Butane	1,900	--	203	--	-1,507	--	257	87	6	246	1,319
Isobutane	941	--	26	13	-805	--	26	209	--	-60	305
Natural Gasoline	2,123	-10	--	--	-1,535	--	-16	176	73	345	383
Refinery Olefins	--	--	78	--	--	--	7	--	--	71	103
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	3	--	--	--	0	--	--	3	0
Normal Butylene	--	--	75	--	--	--	7	--	--	68	103
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	380	--	130	677	-733	331	4	5	113	9,907
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	380	--	21	167	586	-58	1,211	1	0	449
Hydrogen	--	--	--	--	--	217	--	217	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	380	--	21	167	369	-58	994	1	0	449
Fuel Ethanol	--	380	--	--	167	333	-60	940	--	0	355
Renewable Fuels Except Fuel Ethanol	--	0	--	21	--	36	2	54	1	0	94
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	66	-183	4	113	3,597
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	109	510	-1,320	323	-1,024	0	0	5,861
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	510	-1,320	323	-1,024	0	0	5,861
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	20,959	103	-1,407	949	-540	--	21	21,123	8,783
Finished Motor Gasoline	--	--	9,816	--	-484	987	-89	--	1	10,406	1,596
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	9,816	--	-484	987	-89	--	1	10,406	1,596
Finished Aviation Gasoline	--	--	6	--	--	--	0	--	--	6	9
Kerosene-Type Jet Fuel	--	--	1,029	--	785	--	-101	--	--	1,915	647
Kerosene	--	--	--	--	--	--	0	--	--	0	1
Distillate Fuel Oil	--	--	6,776	96	-298	-37	-228	--	0	6,765	4,066
15 ppm sulfur and under	--	--	6,784	96	-298	-37	-183	--	0	6,728	3,864
Greater than 15 ppm to 500 ppm sulfur	--	--	27	--	--	--	-10	--	--	37	169
Greater than 500 ppm sulfur	--	--	-35	--	--	--	-35	--	--	0	33
Residual Fuel Oil ⁶	--	--	360	--	--	--	-5	--	9	356	210
Less than 0.31 percent sulfur	--	--	193	--	--	--	-1	--	NA	NA	28
0.31 to 1.00 percent sulfur	--	--	19	--	--	--	-1	--	NA	NA	5
Greater than 1.00 percent sulfur	--	--	148	--	--	--	-3	--	NA	NA	177
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	7	-7	--
Waxes	--	--	--	--	--	--	--	--	0	0	--
Petroleum Coke	--	--	757	--	-644	--	28	--	--	85	111
Marketable	--	--	522	--	-644	--	28	--	--	-150	111
Catalyst	--	--	235	--	--	--	--	--	--	235	--
Asphalt and Road Oil	--	--	1,417	6	-766	--	-147	--	3	801	2,127
Still Gas	--	--	688	--	--	--	--	--	--	688	--
Miscellaneous Products	--	--	110	1	--	--	2	--	1	108	16
Total	41,791	370	21,544	11,670	-32,647	-1,446	-3,337	20,792	106	23,721	44,366

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 18. PAD District 4 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-June 2019
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	168,124	--	--	66,804	-110,522	-11,071	193	113,142	--	0	21,733
Hydrocarbon Gas Liquids	78,523	-61	1,858	2,223	-66,384	--	483	3,486	1,546	10,644	3,943
Natural Gas Liquids	78,523	-61	1,552	2,223	-66,384	--	417	3,486	1,546	10,404	3,840
Ethane	22,042	--	--	--	--	--	34	--	--	935	499
Propane	28,514	--	1,440	1,852	-22,535	--	-62	--	3	9,330	1,334
Normal Butane	10,934	--	118	271	-8,961	--	376	1,294	15	677	1,319
Isobutane	5,479	--	-6	100	-4,967	--	38	1,224	--	-656	305
Natural Gasoline	11,554	-61	--	--	-8,848	--	31	968	1,528	118	383
Refinery Olefins	--	--	306	--	--	--	66	--	--	240	103
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	20	--	--	--	-1	--	--	21	0
Normal Butylene	--	--	307	--	--	--	72	--	--	235	103
Isobutylene	--	--	-21	--	--	--	-5	--	--	-16	0
Other Liquids	--	2,391	--	839	2,633	-5,917	269	-1,956	21	1,612	9,907
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	2,391	--	84	1,831	2,456	-18	6,778	2	0	449
Hydrogen	--	--	--	--	--	1,211	--	1,211	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0	--
Renewable Fuels (including Fuel Ethanol)	--	2,391	--	84	1,831	1,245	-18	5,567	2	0	449
Fuel Ethanol	--	2,391	--	--	1,572	1,321	2	5,282	--	0	355
Renewable Fuels Except Fuel Ethanol	--	0	--	84	259	-76	-20	285	2	0	94
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	100	-1,731	19	1,612	3,597
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	755	802	-8,373	187	-7,003	0	0	5,861
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	802	-8,373	187	-7,003	0	0	5,861
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	117,298	900	-5,628	7,107	-193	--	106	119,764	8,783
Finished Motor Gasoline	--	--	55,285	--	-3,535	7,051	-17	--	7	58,811	1,596
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	55,285	--	-3,535	7,051	-17	--	7	58,811	1,596
Finished Aviation Gasoline	--	--	26	2	--	--	-1	--	--	29	9
Kerosene-Type Jet Fuel	--	--	5,899	--	4,546	--	-167	--	--	10,612	647
Kerosene	--	--	--	--	--	--	-1	--	--	1	1
Distillate Fuel Oil	--	--	38,378	604	-992	55	-378	--	0	38,423	4,066
15 ppm sulfur and under	--	--	38,150	604	-992	55	-293	--	0	38,110	3,864
Greater than 15 ppm to 500 ppm sulfur	--	--	281	--	--	--	-32	--	--	313	169
Greater than 500 ppm sulfur	--	--	-53	--	--	--	-53	--	--	0	33
Residual Fuel Oil ⁶	--	--	2,208	97	--	--	-26	--	43	2,288	210
Less than 0.31 percent sulfur	--	--	1,129	--	--	--	3	--	NA	NA	28
0.31 to 1.00 percent sulfur	--	--	136	--	--	--	-3	--	NA	NA	5
Greater than 1.00 percent sulfur	--	--	943	97	--	--	-26	--	NA	NA	177
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	1	--	--	--	--	43	-42	--
Waxes	--	--	--	--	--	--	--	--	1	-1	--
Petroleum Coke	--	--	4,415	--	-2,127	--	-83	--	1	2,370	111
Marketable	--	--	3,092	--	-2,127	--	-83	--	1	1,047	111
Catalyst	--	--	1,323	--	--	--	--	--	--	1,323	--
Asphalt and Road Oil	--	--	6,588	190	-3,520	--	480	--	8	2,770	2,127
Still Gas	--	--	3,934	--	--	--	--	--	--	3,934	--
Miscellaneous Products	--	--	565	6	--	--	0	--	3	568	16
Total	246,647	2,330	119,156	70,766	-179,901	-9,880	752	114,672	1,673	132,020	44,366

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 19. PAD District 4 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, June 2019
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	955	--	--	377	-717	-55	-117	677	--	0
Hydrocarbon Gas Liquids	438	0	20	4	-347	--	13	16	3	83
Natural Gas Liquids	438	0	17	4	-347	--	12	16	3	80
Ethane	111	--	--	--	--	--	1	--	--	20
Propane	161	--	9	4	-129	--	2	--	0	43
Normal Butane	63	--	7	--	-50	--	9	3	0	8
Isobutane	31	--	1	0	-27	--	1	7	--	-2
Natural Gasoline	71	0	--	--	-51	--	-1	6	2	11
Refinery Olefins	--	--	3	--	--	--	0	--	--	2
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	0	--	--	--	0	--	--	0
Normal Butylene	--	--	3	--	--	--	0	--	--	2
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	13	--	4	23	-24	11	0	0	4
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	13	--	1	6	20	-2	40	0	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	13	--	1	6	12	-2	33	0	0
Fuel Ethanol	--	13	--	--	6	11	-2	31	--	0
Renewable Fuels Except Fuel Ethanol	--	0	--	1	--	1	0	2	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	2	-6	0	4
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	4	17	-44	11	-34	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	17	-44	11	-34	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	699	3	-47	32	-18	--	1	704
Finished Motor Gasoline	--	--	327	--	-16	33	-3	--	0	347
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	327	--	-16	33	-3	--	0	347
Finished Aviation Gasoline	--	--	0	--	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	34	--	26	--	-3	--	--	64
Kerosene	--	--	--	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	226	3	-10	-1	-8	--	0	225
15 ppm sulfur and under	--	--	226	3	-10	-1	-6	--	0	224
Greater than 15 ppm to 500 ppm sulfur	--	--	1	--	--	--	0	--	--	1
Greater than 500 ppm sulfur	--	--	-1	--	--	--	-1	--	--	0
Residual Fuel Oil ⁶	--	--	12	--	--	--	0	--	0	12
Less than 0.31 percent sulfur	--	--	6	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	5	--	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	25	--	-21	--	1	--	--	3
Marketable	--	--	17	--	-21	--	1	--	--	-5
Catalyst	--	--	8	--	--	--	--	--	--	8
Asphalt and Road Oil	--	--	47	0	-26	--	-5	--	0	27
Still Gas	--	--	23	--	--	--	--	--	--	23
Miscellaneous Products	--	--	4	0	--	--	0	--	0	4
Total	1,393	12	718	389	-1,088	-48	-111	693	4	791

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 20. PAD District 4 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-June 2019
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	929	--	--	369	-611	-61	1	625	--	0
Hydrocarbon Gas Liquids	434	0	10	12	-367	--	3	19	9	59
Natural Gas Liquids	434	0	9	12	-367	--	2	19	9	57
Ethane	122	--	--	--	--	--	0	--	--	5
Propane	158	--	8	10	-125	--	0	--	0	52
Normal Butane	60	--	1	1	-50	--	2	7	0	4
Isobutane	30	--	0	1	-27	--	0	7	--	-4
Natural Gasoline	64	0	--	--	-49	--	0	5	8	1
Refinery Olefins	--	--	2	--	--	--	0	--	--	1
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	0	--	--	--	0	--	--	0
Normal Butylene	--	--	2	--	--	--	0	--	--	1
Isobutylene	--	--	0	--	--	--	0	--	--	0
Other Liquids	--	13	--	5	15	-33	1	-11	0	9
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	13	--	0	10	14	0	37	0	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	13	--	0	10	7	0	31	0	0
Fuel Ethanol	--	13	--	--	9	7	0	29	--	0
Renewable Fuels Except Fuel Ethanol	--	0	--	0	1	0	0	2	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	1	-10	0	9
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	4	4	-46	1	-39	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	4	-46	1	-39	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	648	5	-31	39	-1	--	1	662
Finished Motor Gasoline	--	--	305	--	-20	39	0	--	0	325
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	305	--	-20	39	0	--	0	325
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	33	--	25	--	-1	--	--	59
Kerosene	--	--	--	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	212	3	-5	0	-2	--	0	212
15 ppm sulfur and under	--	--	211	3	-5	0	-2	--	0	211
Greater than 15 ppm to 500 ppm sulfur	--	--	2	--	--	--	0	--	--	2
Greater than 500 ppm sulfur	--	--	0	--	--	--	0	--	--	0
Residual Fuel Oil ⁶	--	--	12	1	--	--	0	--	0	13
Less than 0.31 percent sulfur	--	--	6	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	5	1	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	0	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	24	--	-12	--	0	--	0	13
Marketable	--	--	17	--	-12	--	0	--	0	6
Catalyst	--	--	7	--	--	--	--	--	--	7
Asphalt and Road Oil	--	--	36	1	-19	--	3	--	0	15
Still Gas	--	--	22	--	--	--	--	--	--	22
Miscellaneous Products	--	--	3	0	--	--	0	--	0	3
Total	1,363	13	658	391	-994	-55	4	634	9	729

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 21. PAD District 5 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, June 2019
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	27,437	--	--	40,398	5,333	1,072	-1,295	74,438	1,096	0	50,711
Hydrocarbon Gas Liquids	1,662	-11	2,273	1,276	686	--	450	2,164	1,331	1,941	3,505
Natural Gas Liquids	1,662	-11	2,290	1,276	686	--	448	2,164	1,331	1,960	3,451
Ethane	2	--	--	--	--	--	--	--	1	1	--
Propane	292	--	1,059	824	297	--	324	--	781	1,367	1,128
Normal Butane	139	--	1,100	425	324	--	112	593	493	790	1,786
Isobutane	467	--	131	27	65	--	28	894	1	-233	497
Natural Gasoline	762	-11	--	--	--	--	-16	677	56	34	40
Refinery Olefins	--	--	-17	--	--	--	2	--	--	-19	54
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	153	--	--	--	10	--	--	143	12
Normal Butylene	--	--	-170	--	--	--	-8	--	--	-162	42
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	762	--	4,354	9,558	-1,980	-712	13,949	514	-1,057	55,001
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	762	--	1,276	5,168	18	154	6,812	258	0	4,599
Hydrogen	--	--	--	--	--	1,301	--	1,301	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	--	--	1	0	--
Renewable Fuels (including Fuel Ethanol)	--	762	--	1,276	5,168	-1,284	154	5,511	257	0	4,599
Fuel Ethanol	--	493	--	574	4,760	-638	181	4,841	167	0	2,651
Renewable Fuels Except Fuel Ethanol	--	269	--	702	408	-645	-27	670	91	0	1,948
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	2,306	--	--	-599	3,903	59	-1,057	21,920
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	772	4,390	-1,998	-267	3,234	197	0	28,482
Reformulated	--	--	--	315	2,155	162	-180	2,811	1	0	14,077
Conventional	--	--	--	457	2,235	-2,160	-87	423	196	0	14,405
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	93,744	4,754	1,961	2,592	369	--	9,430	93,252	35,531
Finished Motor Gasoline	--	--	48,042	365	358	2,637	-119	--	781	50,740	2,075
Reformulated	--	--	33,972	--	--	215	-2	--	--	34,189	17
Conventional	--	--	14,070	365	358	2,422	-117	--	781	16,551	2,058
Finished Aviation Gasoline	--	--	101	7	--	--	91	--	--	17	212
Kerosene-Type Jet Fuel	--	--	14,877	3,172	207	--	979	--	653	16,624	9,770
Kerosene	--	--	-1	--	--	--	5	--	0	-6	23
Distillate Fuel Oil	--	--	16,902	510	763	-45	-300	--	3,387	15,044	12,884
15 ppm sulfur and under	--	--	16,132	509	763	-45	-268	--	2,008	15,619	11,873
Greater than 15 ppm to 500 ppm sulfur	--	--	334	--	--	--	-5	--	374	-35	250
Greater than 500 ppm sulfur	--	--	436	1	--	--	-27	--	1,005	-541	761
Residual Fuel Oil ⁶	--	--	3,850	410	--	--	337	--	470	3,453	5,290
Less than 0.31 percent sulfur	--	--	4	--	--	--	-284	--	NA	NA	202
0.31 to 1.00 percent sulfur	--	--	395	233	--	--	42	--	NA	NA	546
Greater than 1.00 percent sulfur	--	--	3,451	177	--	--	579	--	NA	NA	4,536
Petrochemical Feedstocks	--	--	2	70	--	--	1	--	--	71	4
Naphtha for Petro. Feed. Use	--	--	2	70	--	--	1	--	--	71	4
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	42	--	--	--	-29	--	--	71	29
Lubricants	--	--	534	11	--	--	-161	--	365	341	718
Waxes	--	--	--	94	--	--	--	--	7	87	--
Petroleum Coke	--	--	4,455	32	-25	--	-84	--	3,727	820	1,665
Marketable	--	--	3,391	32	-25	--	-84	--	3,727	-244	1,665
Catalyst	--	--	1,064	--	--	--	--	--	--	1,064	--
Asphalt and Road Oil	--	--	903	83	658	--	-345	--	41	1,948	2,789
Still Gas	--	--	3,651	--	--	--	--	--	--	3,651	--
Miscellaneous Products	--	--	386	--	--	--	-6	--	0	392	72
Total	29,099	751	96,017	50,782	17,538	1,683	-1,188	90,551	12,371	94,136	144,748

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biogiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 22. PAD District 5 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-June 2019
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	170,609	--	--	223,718	31,712	10,198	5,565	427,771	2,901	0	50,711
Hydrocarbon Gas Liquids	10,942	-66	9,267	9,966	4,873	--	-54	14,776	8,292	11,968	3,505
Natural Gas Liquids	10,942	-66	8,987	9,966	4,873	--	-58	14,776	8,292	11,692	3,451
Ethane	11	--	--	--	--	--	--	--	3	8	--
Propane	1,777	--	5,941	6,074	1,873	--	-285	--	5,145	10,805	1,128
Normal Butane	1,807	--	2,314	3,474	2,199	--	128	5,685	3,018	963	1,786
Isobutane	2,272	--	732	418	801	--	93	4,531	5	-406	497
Natural Gasoline	5,075	-66	--	--	--	--	6	4,560	122	321	40
Refinery Olefins	--	--	280	--	--	--	4	--	--	276	54
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	825	--	--	--	0	--	--	825	12
Normal Butylene	--	--	-545	--	--	--	4	--	--	-549	42
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	4,643	--	28,783	56,509	-5,455	3,284	77,954	2,788	454	55,001
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	4,643	--	4,373	28,288	2,777	-362	38,899	1,545	0	4,599
Hydrogen	--	--	--	--	--	7,055	--	7,055	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	3	--	--	3	0	--
Renewable Fuels (including Fuel Ethanol)	--	4,643	--	4,373	28,288	-4,281	-362	31,844	1,542	0	4,599
Fuel Ethanol	--	3,087	--	1,138	25,965	-1,282	-521	28,246	1,183	0	2,651
Renewable Fuels Except Fuel Ethanol	--	1,556	--	3,235	2,322	-2,998	159	3,598	359	0	1,948
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	13,631	--	--	2,470	10,278	429	454	21,920
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	10,779	28,221	-8,233	1,176	28,777	814	0	28,482
Reformulated	--	--	--	2,255	13,838	4,559	1,313	19,331	8	0	14,077
Conventional	--	--	--	8,524	14,383	-12,792	-137	9,446	806	0	14,405
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	543,968	29,337	12,722	9,911	-360	--	63,016	533,282	35,531
Finished Motor Gasoline	--	--	282,711	2,697	2,913	9,515	-9	--	6,269	291,576	2,075
Reformulated	--	--	200,162	--	--	-2,020	3	--	--	198,139	17
Conventional	--	--	82,549	2,697	2,913	11,535	-12	--	6,269	93,437	2,058
Finished Aviation Gasoline	--	--	187	24	--	--	-3	--	--	214	212
Kerosene-Type Jet Fuel	--	--	79,884	18,165	1,737	--	-152	--	4,192	95,746	9,770
Kerosene	--	--	34	--	--	--	-50	--	10	74	23
Distillate Fuel Oil	--	--	103,680	2,284	5,302	395	-965	--	23,221	89,405	12,884
15 ppm sulfur and under	--	--	98,942	2,278	5,302	395	-990	--	15,901	92,006	11,873
Greater than 15 ppm to 500 ppm sulfur	--	--	1,940	--	--	--	6	--	3,402	-1,468	250
Greater than 500 ppm sulfur	--	--	2,798	6	--	--	19	--	3,918	-1,133	761
Residual Fuel Oil ⁶	--	--	20,611	4,238	--	--	776	--	5,754	18,319	5,290
Less than 0.31 percent sulfur	--	--	41	338	--	--	-60	--	NA	NA	202
0.31 to 1.00 percent sulfur	--	--	2,344	1,365	--	--	79	--	NA	NA	546
Greater than 1.00 percent sulfur	--	--	18,226	2,535	--	--	757	--	NA	NA	4,536
Petrochemical Feedstocks	--	--	15	213	--	--	-1	--	--	229	4
Naphtha for Petro. Feed. Use	--	--	15	213	--	--	-1	--	--	229	4
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	181	--	--	--	-28	--	--	209	29
Lubricants	--	--	2,894	496	-137	--	-551	--	1,757	2,047	718
Waxes	--	--	--	309	--	--	--	--	32	277	--
Petroleum Coke	--	--	26,297	142	-201	--	194	--	21,389	4,654	1,665
Marketable	--	--	20,420	142	-201	--	194	--	21,389	-1,223	1,665
Catalyst	--	--	5,877	--	--	--	--	--	--	5,877	--
Asphalt and Road Oil	--	--	4,361	769	3,108	--	456	--	389	7,393	2,789
Still Gas	--	--	20,758	--	--	--	--	--	--	20,758	--
Miscellaneous Products	--	--	2,355	--	--	--	-27	--	2	2,380	72
Total	181,551	4,577	553,235	291,804	105,816	14,653	8,435	520,501	76,997	545,704	144,748

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 23. PAD District 5 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, June 2019
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	915	--	--	1,347	178	36	-43	2,481	37	0
Hydrocarbon Gas Liquids	55	0	76	43	23	--	15	72	44	65
Natural Gas Liquids	55	0	76	43	23	--	15	72	44	65
Ethane	0	--	--	--	--	--	--	--	0	0
Propane	10	--	35	27	10	--	11	--	26	46
Normal Butane	5	--	37	14	11	--	4	20	16	26
Isobutane	16	--	4	1	2	--	1	30	0	-8
Natural Gasoline	25	0	--	--	--	--	-1	23	2	1
Refinery Olefins	--	--	-1	--	--	--	0	--	--	-1
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	5	--	--	--	0	--	--	5
Normal Butylene	--	--	-6	--	--	--	0	--	--	-5
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	25	--	145	319	-66	-24	465	17	-35
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	25	--	43	172	1	5	227	9	0
Hydrogen	--	--	--	--	--	43	--	43	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	25	--	43	172	-43	5	184	9	0
Fuel Ethanol	--	16	--	19	159	-21	6	161	6	0
Renewable Fuels Except Fuel Ethanol	--	9	--	23	14	-22	-1	22	3	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	77	--	--	-20	130	2	-35
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	26	146	-67	-9	108	7	0
Reformulated	--	--	--	11	72	5	-6	94	0	0
Conventional	--	--	--	15	75	-72	-3	14	7	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,125	158	65	86	12	--	314	3,108
Finished Motor Gasoline	--	--	1,601	12	12	88	-4	--	26	1,691
Reformulated	--	--	1,132	--	--	7	0	--	--	1,140
Conventional	--	--	469	12	12	81	-4	--	26	552
Finished Aviation Gasoline	--	--	3	0	--	--	3	--	--	1
Kerosene-Type Jet Fuel	--	--	496	106	7	--	33	--	22	554
Kerosene	--	--	0	--	--	--	0	--	0	0
Distillate Fuel Oil	--	--	563	17	25	-1	-10	--	113	501
15 ppm sulfur and under	--	--	538	17	25	-1	-9	--	67	521
Greater than 15 ppm to 500 ppm sulfur	--	--	11	--	--	--	0	--	12	-1
Greater than 500 ppm sulfur	--	--	15	0	--	--	-1	--	33	-18
Residual Fuel Oil ⁶	--	--	128	14	--	--	11	--	16	115
Less than 0.31 percent sulfur	--	--	0	--	--	--	-9	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	13	8	--	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	115	6	--	--	19	--	NA	NA
Petrochemical Feedstocks	--	--	0	2	--	--	0	--	--	2
Naphtha for Petro. Feed. Use	--	--	0	2	--	--	0	--	--	2
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	-1	--	--	2
Lubricants	--	--	18	0	--	--	-5	--	12	11
Waxes	--	--	--	3	--	--	--	--	0	3
Petroleum Coke	--	--	149	1	-1	--	-3	--	124	27
Marketable	--	--	113	1	-1	--	-3	--	124	-8
Catalyst	--	--	35	--	--	--	--	--	--	35
Asphalt and Road Oil	--	--	30	3	22	--	-12	--	1	65
Still Gas	--	--	122	--	--	--	--	--	--	122
Miscellaneous Products	--	--	13	--	--	--	0	--	0	13
Total	970	25	3,201	1,693	585	56	-40	3,018	412	3,138

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 24. PAD District 5 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-June 2019
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	943	--	--	1,236	175	56	31	2,363	16	0
Hydrocarbon Gas Liquids	60	0	51	55	27	--	0	82	46	66
Natural Gas Liquids	60	0	50	55	27	--	0	82	46	65
Ethane	0	--	--	--	--	--	--	--	0	0
Propane	10	--	33	34	10	--	-2	--	28	60
Normal Butane	10	--	13	19	12	--	1	31	17	5
Isobutane	13	--	4	2	4	--	1	25	0	-2
Natural Gasoline	28	0	--	--	--	--	0	25	1	2
Refinery Olefins	--	--	2	--	--	--	0	--	--	2
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	5	--	--	--	0	--	--	5
Normal Butylene	--	--	-3	--	--	--	0	--	--	-3
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	26	--	159	312	-30	18	431	15	3
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	26	--	24	156	15	-2	215	9	0
Hydrogen	--	--	--	--	--	39	--	39	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	26	--	24	156	-24	-2	176	9	0
Fuel Ethanol	--	17	--	6	143	-7	-3	156	7	0
Renewable Fuels Except Fuel Ethanol	--	9	--	18	13	-17	1	20	2	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	75	--	--	14	57	2	3
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	60	156	-45	6	159	4	0
Reformulated	--	--	--	12	76	25	7	107	0	0
Conventional	--	--	--	47	79	-71	-1	52	4	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,005	162	70	55	-2	--	348	2,946
Finished Motor Gasoline	--	--	1,562	15	16	53	0	--	35	1,611
Reformulated	--	--	1,106	--	--	-11	0	--	--	1,095
Conventional	--	--	456	15	16	64	0	--	35	516
Finished Aviation Gasoline	--	--	1	0	--	--	0	--	--	1
Kerosene-Type Jet Fuel	--	--	441	100	10	--	-1	--	23	529
Kerosene	--	--	0	--	--	--	0	--	0	0
Distillate Fuel Oil	--	--	573	13	29	2	-5	--	128	494
15 ppm sulfur and under	--	--	547	13	29	2	-5	--	88	508
Greater than 15 ppm to 500 ppm sulfur	--	--	11	--	--	--	0	--	19	-8
Greater than 500 ppm sulfur	--	--	15	0	--	--	0	--	22	-6
Residual Fuel Oil ⁶	--	--	114	23	--	--	4	--	32	101
Less than 0.31 percent sulfur	--	--	0	2	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	13	8	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	101	14	--	--	4	--	NA	NA
Petrochemical Feedstocks	--	--	0	1	--	--	0	--	--	1
Naphtha for Petro. Feed. Use	--	--	0	1	--	--	0	--	--	1
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	16	3	-1	--	-3	--	10	11
Waxes	--	--	--	2	--	--	--	--	0	2
Petroleum Coke	--	--	145	1	-1	--	1	--	118	26
Marketable	--	--	113	1	-1	--	1	--	118	-7
Catalyst	--	--	32	--	--	--	--	--	--	32
Asphalt and Road Oil	--	--	24	4	17	--	3	--	2	41
Still Gas	--	--	115	--	--	--	--	--	--	115
Miscellaneous Products	--	--	13	--	--	--	0	--	0	13
Total	1,003	25	3,057	1,612	585	81	47	2,876	425	3,015

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 25. Crude Oil Supply, Disposition, and Ending Stocks by PAD District, June 2019
(Thousand Barrels, Except Where Noted)

Process	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Supply							
Field Production	2,000	65,299	239,055	28,664	27,437	362,455	12,082
Alaskan	--	--	--	--	--	13,643	455
Lower 48 States	--	--	--	--	--	348,813	11,627
Imports (PAD District of Entry)	23,820	86,567	52,143	11,305	40,398	214,233	7,141
Commercial	23,820	86,567	52,143	11,305	40,398	214,233	7,141
Strategic Petroleum Reserve (SPR)	--	--	--	--	--	--	--
Net Receipts	6,211	-28,004	37,958	-21,497	5,333	--	--
Adjustments ¹	-1,316	-3,564	24,337	-1,662	1,072	18,866	629
Disposition							
Stock Change ²	-339	-1,179	-9,878	-3,506	-1,295	-16,197	-540
Commercial	--	--	-9,878	--	--	-16,197	-540
SPR	--	--	0	--	--	0	0
Refinery Inputs	31,053	117,498	273,671	20,316	74,438	516,976	17,233
Exports	1	3,979	89,700	--	1,096	94,776	3,159
Ending Stocks							
Total	14,786	141,807	879,742	21,733	50,711	1,108,779	--
Commercial	14,786	141,807	234,924	21,733	50,711	463,961	--
Refinery	12,394	14,323	47,363	2,747	22,054	98,881	--
Tank Farms and Pipelines	2,392	127,484	187,561	18,986	25,677	362,100	--
Cushing, Oklahoma	--	52,808	--	--	--	52,808	--
Lease	--	--	--	--	--	--	--
Alaskan Crude Oil In-Transit by Water	--	--	--	--	2,980	2,980	--
SPR	--	--	644,818	--	--	644,818	--
SPR Stocks							
Percent of Total Crude Oil Stocks (Percent)	--	--	--	--	--	58.2	--
Percent of Total Petroleum Stocks (Percent)	--	--	--	--	--	33.0	--
Days of Total Petroleum Net Imports (Days)	--	--	--	--	--	1,274	--
SPR Receipts Detail							
Receipts	--	--	--	--	--	--	--
Domestic	--	--	--	--	--	--	--
Imports	--	--	--	--	--	--	--
Imported by SPR	--	--	--	--	--	--	--
Imported for SPR by Others	--	--	--	--	--	--	--
Imports							
PAD District of Entry	23,820	86,567	52,143	11,305	40,398	214,233	7,141
PAD District of Processing	25,145	77,450	61,336	9,048	41,254	214,233	7,141

-- = Not Applicable.

-- = No Data Reported.

¹ Crude oil adjustment was previously referred to as Unaccounted-for Crude Oil.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

Notes: Totals may not equal the sum of components due to independent rounding. Values of Domestic Crude Oil Field Production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," and EIA-817, "Monthly Tanker and Barge Movements Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 26. Production of Crude Oil by PAD District and State, June 2019
(Thousand Barrels)

PAD District and State	June 2019		January-June 2019	
	Total	Daily Average	Total	Daily Average
PAD District 1	2,000	67	11,364	63
Florida	137	5	846	5
New York	18	1	110	1
Pennsylvania	472	16	3,100	17
Virginia	0	0	1	0
West Virginia	1,374	46	7,307	40
PAD District 2	65,299	2,177	391,610	2,164
Illinois	606	20	3,989	22
Indiana	100	3	734	4
Kansas	2,773	92	16,672	92
Kentucky	312	10	1,193	7
Michigan	408	14	2,531	14
Missouri	6	0	35	0
Nebraska	185	6	990	5
North Dakota	42,078	1,403	246,877	1,364
Ohio	2,299	77	12,381	68
Oklahoma	16,420	547	105,506	583
South Dakota	97	3	597	3
Tennessee	17	1	105	1
PAD District 3	239,055	7,969	1,422,921	7,861
Alabama	374	12	2,493	14
Arkansas	383	13	2,339	13
Louisiana	3,634	121	21,927	121
Mississippi	1,398	47	8,525	47
New Mexico	26,545	885	156,922	867
Texas	149,457	4,982	888,515	4,909
Federal Offshore PAD District 3	57,264	1,909	342,200	1,891
PAD District 4	28,664	955	168,124	929
Colorado	15,494	516	89,166	493
Idaho	2	0	14	0
Montana	1,918	64	11,612	64
Utah	3,138	105	18,806	104
Wyoming	8,111	270	48,526	268
PAD District 5	27,437	915	170,609	943
Alaska	13,643	455	86,564	478
South Alaska	400	13	2,654	15
North Slope	13,243	441	83,910	464
Arizona	0	0	2	0
California	13,336	445	81,887	452
Nevada	21	1	126	1
Federal Offshore PAD District 5	436	15	2,029	11
U.S. Total	362,455	12,082	2,164,628	11,959

– = No Data Reported.

Note: Year-to-date totals include revised monthly production estimates by state published in Petroleum Navigator. Crude oil production quantities are estimated by state and summed to the PADD and the U.S. level. State production estimates reported by EIA are normally different from data reported by state agencies. For example, production estimates for Texas reported on table 26 are different from production reported by the Railroad Commission of Texas. See EIA "Today In Energy" article released on July 10, 2015 (<http://www.eia.gov/todayinenergy/detail.cfm?id=22012>) for an explanation of differences in production data for Texas. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," state government agencies, U.S. Department of the Interior, and the Bureau of Ocean Energy Management.

Table 27. Natural Gas Plant Net Production and Stocks of Petroleum Products by PAD and Refining Districts, June 2019
(Thousand Barrels)

Commodity	Production						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	14	17,354	17,368	4,939	7,878	17,274	30,091
Natural Gas Liquids	14	17,354	17,368	4,939	7,878	17,274	30,091
Ethane	—	7,161	7,161	1,511	1,439	7,389	10,339
Propane	5	5,824	5,829	2,133	3,249	5,260	10,642
Normal Butane	9	1,896	1,905	461	1,467	1,848	3,776
Isobutane	—	784	784	445	381	885	1,711
Natural Gasoline	—	1,689	1,689	389	1,342	1,892	3,623

Commodity	Production								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	63,101	4,909	5,631	562	7,327	81,530	13,127	1,662	143,778
Natural Gas Liquids	63,101	4,909	5,631	562	7,327	81,530	13,127	1,662	143,778
Ethane	26,909	2,062	2,073	97	2,966	34,107	3,341	2	54,950
Propane	19,171	1,511	1,909	161	2,323	25,075	4,822	292	46,660
Normal Butane	6,557	-3,078	669	72	706	4,926	1,900	139	12,646
Isobutane	3,667	3,931	382	62	536	8,578	941	467	12,481
Natural Gasoline	6,797	483	598	170	796	8,844	2,123	762	17,041

Commodity	Stocks						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	5	212	217	730	154	589	1,473
Natural Gas Liquids	5	212	217	730	154	589	1,473
Ethane	—	—	—	33	1	141	175
Propane	2	101	103	381	63	190	634
Normal Butane	3	38	41	116	34	99	249
Isobutane	—	14	14	110	6	65	181
Natural Gasoline	—	59	59	90	50	94	234

Commodity	Stocks								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	203	1,060	2,231	22	—	3,516	199	273	5,678
Natural Gas Liquids	203	1,060	2,231	22	—	3,516	199	273	5,678
Ethane	39	303	—	—	—	342	6	—	523
Propane	59	382	36	15	—	492	82	48	1,359
Normal Butane	31	237	1,439	6	—	1,713	42	164	2,209
Isobutane	44	71	52	—	—	167	17	28	407
Natural Gasoline	30	67	704	1	—	802	52	33	1,180

— = No Data Reported.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-816, "Monthly Natural Gas Liquids Report."

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, June 2019
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	28,803	2,250	31,053	74,544	15,585	27,369	117,498
Hydrocarbon Gas Liquids	408	—	408	1,296	43	830	2,169
Natural Gas Liquids	408	—	408	1,296	43	830	2,169
Normal Butane	11	—	11	3	9	30	42
Isobutane	324	—	324	849	34	358	1,241
Natural Gasoline	73	—	73	444	—	442	886
Other Liquids	79,467	6,780	86,247	14,062	4,094	2,257	20,413
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	9,803	813	10,616	5,989	1,660	1,862	9,511
Hydrogen	88	8	96	691	277	191	1,159
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	9,715	805	10,520	5,267	1,383	1,671	8,321
Fuel Ethanol	9,537	750	10,287	4,969	1,114	1,600	7,683
Renewable Diesel Fuel ²	178	55	233	298	269	71	638
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	31	—	—	31
Unfinished Oils (net)	1,798	-114	1,684	-1,329	-127	-253	-1,709
Naphthas and Lighter	844	-82	762	419	-178	-38	203
Kerosene and Light Gas Oils	79	—	79	182	-124	124	182
Heavy Gas Oils	781	-33	748	-1,768	175	0	-1,593
Residuum	94	1	95	-162	—	-339	-501
Motor Gasoline Blend.Comp. (MGBC)(net)	67,866	6,081	73,947	9,402	2,561	648	12,611
Reformulated - RBOB	17,288	267	17,555	427	1,352	813	2,592
Conventional	50,578	5,814	56,392	8,975	1,209	-165	10,019
CBOB	38,971	5,800	44,771	9,566	990	-158	10,398
GTAB	4,641	—	4,641	—	—	—	—
Other	6,966	14	6,980	-591	219	-7	-379
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—
Total Input	108,678	9,030	117,708	89,902	19,722	30,456	140,080

See footnotes at end of table.

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, June 2019
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	21,280	138,089	103,688	6,879	3,735	273,671	20,316	74,438	516,976
Hydrocarbon Gas Liquids	506	3,420	3,592	32	177	7,727	472	2,164	12,940
Natural Gas Liquids	506	3,420	3,592	32	177	7,727	472	2,164	12,940
Normal Butane	116	289	79	1	—	485	87	593	1,218
Isobutane	262	1,759	1,650	27	177	3,875	209	894	6,543
Natural Gasoline	128	1,372	1,863	4	—	3,367	176	677	5,179
Other Liquids	9,056	-36,986	-26,396	7,789	-180	-46,717	4	13,949	73,896
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	2,199	2,974	1,933	1,130	226	8,462	1,211	6,812	36,612
Hydrogen	4	2,082	1,409	65	36	3,596	217	1,301	6,369
Oxygenates (excluding Fuel Ethanol)	—	4	—	—	—	4	—	—	4
Methyl Tertiary Butyl Ether (MTBE)	—	4	—	—	—	4	—	—	4
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	2,195	888	524	1,065	190	4,862	994	5,511	30,208
Fuel Ethanol	2,059	834	498	1,027	169	4,587	940	4,841	28,338
Renewable Diesel Fuel ²	136	54	26	38	21	275	54	662	1,862
Other Renewable Fuels	—	—	—	—	—	—	—	8	8
Other Hydrocarbons	—	—	—	—	—	—	—	—	31
Unfinished Oils (net)	125	-918	11,753	-196	45	10,809	-183	3,903	14,504
Naphthas and Lighter	166	-5,523	288	-9	51	-5,027	-87	-408	-4,557
Kerosene and Light Gas Oils	35	-879	1,610	-123	-52	591	-204	480	1,128
Heavy Gas Oils	-55	3,654	7,767	-22	46	11,390	96	3,168	13,809
Residuum	-21	1,830	2,088	-42	—	3,855	12	663	4,124
Motor Gasoline Blend.Comp. (MGBC)(net)	6,732	-39,042	-40,091	6,855	-451	-65,997	-1,024	3,234	22,771
Reformulated - RBOB	5,730	-10,303	-7,331	—	-672	-12,576	—	2,811	10,382
Conventional	1,002	-28,739	-32,760	6,855	221	-53,421	-1,024	423	12,389
CBOB	1,009	-30,472	-31,253	6,891	215	-53,610	-904	750	1,405
GTAB	—	—	—	—	—	—	—	—	4,641
Other	-7	1,733	-1,507	-36	6	189	-120	-327	6,343
Aviation Gasoline Blend. Comp. (net)	0	—	9	—	—	9	—	—	9
Total Input	30,842	104,523	80,884	14,700	3,732	234,681	20,792	90,551	603,812

— = No Data Reported.

¹ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

² Renewable diesel fuel includes biodiesel and other renewable diesel.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal and Blender Report."

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, June 2019
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	1,375	39	1,414	4,668	620	693	5,981
Natural Gas Liquids	1,047	39	1,086	3,757	475	516	4,748
Ethane	—	—	—	—	—	—	—
Propane	557	19	576	1,543	284	497	2,324
Normal Butane	478	33	511	2,198	213	29	2,440
Isobutane	12	-13	-1	16	-22	-10	-16
Natural Gasoline	—	—	—	—	—	—	—
Refinery Olefins	328	—	328	911	145	177	1,233
Ethylene	7	—	7	—	—	—	—
Propylene	409	—	409	800	145	175	1,120
Normal Butylene	-114	—	-114	111	—	2	113
Isobutylene	26	—	26	—	—	—	—
Finished Motor Gasoline	92,153	7,562	99,715	52,470	11,216	16,728	80,414
Reformulated	39,822	391	40,213	8,491	1,508	904	10,903
Reformulated Blended with Fuel Ethanol	39,822	391	40,213	8,491	1,508	904	10,903
Reformulated Other	—	—	—	—	—	—	—
Conventional	52,331	7,171	59,502	43,979	9,708	15,824	69,511
Conventional Blended with Fuel Ethanol	54,782	7,105	61,887	40,676	9,659	14,528	64,863
Ed55 and Lower	54,740	7,105	61,845	40,663	9,628	14,457	64,748
Greater than Ed55	42	—	42	13	31	71	115
Conventional Other	-2,451	66	-2,385	3,303	49	1,296	4,648
Finished Aviation Gasoline	—	—	—	—	30	—	30
Kerosene-Type Jet Fuel	3,743	—	3,743	6,490	1,084	971	8,545
Kerosene	-28	—	-28	59	—	8	67
Distillate Fuel Oil	9,037	668	9,705	19,176	5,130	10,835	35,141
15 ppm sulfur and under	8,988	567	9,555	19,169	5,130	10,986	35,285
Greater than 15 ppm to 500 ppm sulfur	83	85	168	-23	—	-108	-131
Greater than 500 ppm sulfur	-34	16	-18	30	—	-43	-13
Residual Fuel Oil	1,170	1	1,171	911	173	118	1,202
Less than 0.31 percent sulfur	-7	—	-7	78	—	—	78
0.31 to 1.00 percent sulfur	763	1	764	16	75	—	91
Greater than 1.00 percent sulfur	414	—	414	817	98	118	1,033
Petrochemical Feedstocks	59	—	59	805	—	35	840
Naphtha for Petro. Feed. Use	59	—	59	489	—	—	489
Other Oils for Petro. Feed. Use	—	—	—	316	—	35	351
Special Naphthas	—	26	26	-32	—	17	-15
Lubricants	200	181	381	—	—	193	193
Waxes	—	15	15	—	—	30	30
Petroleum Coke	788	12	800	3,571	875	885	5,331
Marketable	174	—	174	2,626	712	664	4,002
Catalyst	614	12	626	945	163	221	1,329
Asphalt and Road Oil	612	388	1,000	2,703	1,095	252	4,050
Still Gas	1,235	39	1,274	2,652	604	1,101	4,357
Miscellaneous Products	51	15	66	275	117	51	443
Total	110,395	8,946	119,341	93,748	20,944	31,917	146,609
Processing Gain(-) or Loss(+) ¹	-1,717	84	-1,633	-3,846	-1,222	-1,461	-6,529

See footnotes at end of table.

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, June 2019
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	1,145	7,609	6,652	45	78	15,529	585	2,273	25,782
Natural Gas Liquids	740	4,465	3,509	29	78	8,821	507	2,290	17,452
Ethane	1	109	21	—	—	131	—	—	131
Propane	319	2,268	2,142	5	41	4,775	278	1,059	9,012
Normal Butane	430	2,767	1,095	24	38	4,354	203	1,100	8,608
Isobutane	-10	-679	251	—	-1	-439	26	131	-299
Natural Gasoline	—	—	—	—	—	—	—	—	—
Refinery Olefins	405	3,144	3,143	16	—	6,708	78	-17	8,330
Ethylene	—	—	—	—	—	—	—	—	7
Propylene	382	3,372	3,250	16	—	7,020	3	153	8,705
Normal Butylene	23	-184	-107	—	—	-268	75	-170	-364
Isobutylene	—	-44	—	—	—	-44	—	—	-18
Finished Motor Gasoline	20,504	24,212	12,954	9,460	1,825	68,955	9,816	48,042	306,942
Reformulated	7,571	6,676	—	—	—	14,247	—	33,972	99,335
Reformulated Blended with Fuel Ethanol	7,571	6,676	—	—	—	14,247	—	33,972	99,335
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	12,933	17,536	12,954	9,460	1,825	54,708	9,816	14,070	207,607
Conventional Blended with Fuel Ethanol	12,773	1,609	5,116	10,213	1,685	31,396	9,333	14,218	181,697
Ed55 and Lower	12,760	1,609	5,116	10,201	1,685	31,371	9,320	14,216	181,500
Greater than Ed55	13	—	—	12	—	25	13	2	197
Conventional Other	160	15,927	7,838	-753	140	23,312	483	-148	25,910
Finished Aviation Gasoline	75	70	116	—	—	261	6	101	398
Kerosene-Type Jet Fuel	1,413	13,884	12,763	223	0	28,283	1,029	14,877	56,477
Kerosene	6	-33	-52	—	—	-79	—	-1	-41
Distillate Fuel Oil	6,670	44,552	36,829	2,408	1,493	91,952	6,776	16,902	160,476
15 ppm sulfur and under	6,643	42,514	30,011	2,289	1,493	82,950	6,784	16,132	150,706
Greater than 15 ppm to 500 ppm sulfur	27	323	2,936	89	—	3,375	27	334	3,773
Greater than 500 ppm sulfur	—	1,715	3,882	30	—	5,627	-35	436	5,997
Residual Fuel Oil	323	1,686	4,129	-8	182	6,312	360	3,850	12,895
Less than 0.31 percent sulfur	194	36	1,126	—	—	1,356	193	4	1,624
0.31 to 1.00 percent sulfur	—	84	441	-8	—	517	19	395	1,786
Greater than 1.00 percent sulfur	129	1,566	2,562	—	182	4,439	148	3,451	9,485
Petrochemical Feedstocks	137	5,081	2,662	—	—	7,880	—	2	8,781
Naphtha for Petro. Feed. Use	124	3,618	1,420	—	—	5,162	—	2	5,712
Other Oils for Petro. Feed. Use	13	1,463	1,242	—	—	2,718	—	—	3,069
Special Naphthas	81	635	—	198	—	914	—	42	967
Lubricants	27	1,683	1,198	864	—	3,772	—	534	4,880
Waxes	—	35	42	27	—	104	—	—	149
Petroleum Coke	406	8,222	5,434	146	31	14,239	757	4,455	25,582
Marketable	166	6,318	4,085	132	—	10,701	522	3,391	18,790
Catalyst	240	1,904	1,349	14	31	3,538	235	1,064	6,792
Asphalt and Road Oil	204	636	708	1,108	42	2,698	1,417	903	10,068
Still Gas	637	5,621	4,081	203	95	10,637	688	3,651	20,607
Miscellaneous Products	107	941	445	19	13	1,525	110	386	2,530
Total	31,735	114,834	87,961	14,693	3,759	252,982	21,544	96,017	636,493
Processing Gain(-) or Loss(+) ¹	-893	-10,311	-7,077	7	-27	-18,301	-752	-5,466	-32,681

— = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal and Blender Report."

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, June 2019
(Thousand Barrels, Except Where Noted)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	28,803	2,250	31,053	74,544	15,585	27,369	117,498
Hydrocarbon Gas Liquids	324	—	324	1,293	34	767	2,094
Natural Gas Liquids	324	—	324	1,293	34	767	2,094
Normal Butane	—	—	—	—	—	8	8
Isobutane	324	—	324	849	34	358	1,241
Natural Gasoline	—	—	—	444	—	401	845
Other Liquids	-12,029	24	-12,005	-32,228	-4,921	-11,821	-48,970
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	156	100	256	972	480	322	1,774
Hydrogen	88	8	96	691	277	191	1,159
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	68	92	160	250	203	131	584
Fuel Ethanol	68	77	145	146	142	115	403
Renewable Diesel Fuel ²	—	15	15	104	61	16	181
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	31	—	—	31
Unfinished Oils (net)	1,798	-114	1,684	-1,405	-127	-253	-1,785
Naphthas and Lighter	844	-82	762	419	-178	-38	203
Kerosene and Light Gas Oils	79	—	79	182	-124	124	182
Heavy Gas Oils	781	-33	748	-1,768	175	0	-1,593
Residuum	94	1	95	-238	—	-339	-577
Motor Gasoline Blend.Comp. (MGBC)(net)	-13,983	38	-13,945	-31,795	-5,274	-11,890	-48,959
Reformulated - RBOB	-8,950	—	-8,950	-7,116	—	—	-7,116
Conventional	-5,033	38	-4,995	-24,679	-5,274	-11,890	-41,843
CBOB	-5,057	24	-5,033	-24,021	-5,440	-11,880	-41,341
GTAB	—	—	—	—	—	—	—
Other	24	14	38	-658	166	-10	-502
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—
Total Input to Refineries	17,098	2,274	19,372	43,609	10,698	16,315	70,622
Atmospheric Crude Oil Distillation							
Gross Input (daily average)	962	76	1,038	2,480	535	914	3,929
Operable Capacity (daily average)	1,126	98	1,224	2,678	547	917	4,141
Operable Utilization Rate (percent) ³	85.4	77.6	84.8	92.6	97.9	99.7	94.9
Downstream Processing							
Fresh Feed Input (daily average)							
Catalytic Reforming	178	13	191	484	79	168	731
Catalytic Cracking	354	10	364	686	140	227	1,053
Catalytic Hydrocracking	39	—	39	159	63	59	280
Delayed and Fluid Coking	31	—	31	325	70	86	482
Crude Oil Qualities							
Sulfur Content, Weighted Average (percent)	0.71	1.31	0.75	1.46	1.87	0.64	1.33
API Gravity, Weighted Average (degrees)	34.79	34.63	34.78	33.24	28.31	38.18	33.68
Operable Capacity (daily average)	1,126	98	1,224	2,678	547	917	4,141
Operating	1,126	98	1,224	2,650	509	917	4,076
Idle	—	—	—	28	38	—	66
Alaskan Crude Oil Receipts	—	—	—	—	—	—	—

See footnotes at end of table.

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, June 2019
(Thousand Barrels, Except Where Noted) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	21,280	138,089	103,688	6,879	3,735	273,671	20,316	74,438	516,976
Hydrocarbon Gas Liquids	492	2,776	3,590	31	177	7,066	451	2,159	12,094
Natural Gas Liquids	492	2,776	3,590	31	177	7,066	451	2,159	12,094
Normal Butane	116	229	77	—	—	422	81	588	1,099
Isobutane	262	1,759	1,650	27	177	3,875	207	894	6,541
Natural Gasoline	114	788	1,863	4	—	2,769	163	677	4,454
Other Liquids	-8,929	-48,523	-29,723	-1,224	-1,356	-89,755	-4,907	-31,786	-187,423
Hydrogen/Oxygenates/Renewables/									
Other Hydrocarbons	283	2,148	1,609	117	93	4,250	547	1,732	8,559
Hydrogen	4	2,082	1,409	65	36	3,596	217	1,301	6,369
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	279	66	200	52	57	654	330	431	2,159
Fuel Ethanol	221	52	174	43	48	538	285	99	1,470
Renewable Diesel Fuel ²	58	14	26	9	9	116	45	332	689
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—	—	31
Unfinished Oils (net)	125	-859	11,671	-196	45	10,786	-183	3,903	14,405
Naphthas and Lighter	166	-5,523	288	-9	51	-5,027	-87	-408	-4,557
Kerosene and Light Gas Oils	35	-820	1,610	-123	-52	650	-204	480	1,187
Heavy Gas Oils	-55	3,654	7,685	-22	46	11,308	96	3,168	13,727
Residuum	-21	1,830	2,088	-42	—	3,855	12	663	4,048
Motor Gasoline Blend.Comp. (MGBBC)(net)	-9,337	-49,812	-43,012	-1,145	-1,494	-104,800	-5,271	-37,421	-210,396
Reformulated - RBOB	-1,112	-14,889	-7,331	—	-672	-24,004	—	-27,174	-67,244
Conventional	-8,225	-34,923	-35,681	-1,145	-822	-80,796	-5,271	-10,247	-143,152
CBOB	-8,218	-29,935	-33,065	-1,109	-820	-73,147	-5,150	-9,920	-134,591
GTAB	—	—	—	—	—	—	—	—	—
Other	-7	-4,988	-2,616	-36	-2	-7,649	-121	-327	-8,561
Aviation Gasoline Blend. Comp. (net)	0	—	9	—	—	9	—	—	9
Total Input to Refineries	12,843	92,342	77,555	5,686	2,556	190,982	15,860	44,811	341,647
Atmospheric Crude Oil Distillation									
Gross Input (daily average)	711	4,758	3,608	210	125	9,411	678	2,645	17,702
Operable Capacity (daily average)	745	5,042	3,696	256	136	9,876	687	2,875	18,802
Operable Utilization Rate (percent) ³	95.3	94.4	97.6	81.9	91.7	95.3	98.8	92.0	94.2
Downstream Processing									
Fresh Feed Input (daily average)									
Catalytic Reforming	153	721	598	35	29	1,535	108	419	2,985
Catalytic Cracking	186	1,275	1,068	16	30	2,575	173	722	4,888
Catalytic Hydrocracking	47	506	420	19	17	1,009	28	494	1,850
Delayed and Fluid Coking	25	785	521	25	—	1,355	64	451	2,383
Crude Oil Qualities									
Sulfur Content, Weighted Average (percent)	0.58	1.42	0.94	1.66	0.92	1.17	1.45	1.45	1.23
API Gravity, Weighted Average (degrees)	39.82	32.39	33.05	29.78	35.56	33.23	33.10	28.46	32.69
Operable Capacity (daily average)	745	5,042	3,696	256	136	9,876	687	2,875	18,802
Operating	745	5,007	3,696	256	136	9,841	677	2,869	18,686
Idle	—	35	—	—	—	35	10	7	117
Alaskan Crude Oil Receipts	—	—	—	—	—	—	—	13,561	13,561

— = No Data Reported.

NA = Not Available.

¹ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

² Renewable diesel fuel includes biodiesel and other renewable diesel.

³ Represents gross input divided by operable calendar day capacity.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, June 2019
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	1,375	39	1,414	4,668	620	693	5,981
Natural Gas Liquids	1,047	39	1,086	3,757	475	516	4,748
Ethane	-	-	-	-	-	-	-
Propane	557	19	576	1,543	284	497	2,324
Normal Butane	478	33	511	2,198	213	29	2,440
Isobutane	12	-13	-1	16	-22	-10	-16
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	328	-	328	911	145	177	1,233
Ethylene	7	-	7	-	-	-	-
Propylene	409	-	409	800	145	175	1,120
Normal Butylene	-114	-	-114	111	-	2	113
Isobutylene	26	-	26	-	-	-	-
Finished Motor Gasoline	680	849	1,529	6,442	2,398	2,640	11,480
Reformulated	680	-	680	-	-	-	-
Reformulated Blended with Fuel Ethanol	680	-	680	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	-	849	849	6,442	2,398	2,640	11,480
Conventional Blended with Fuel Ethanol	-	770	770	1,493	1,661	1,167	4,321
Ed55 and Lower	-	770	770	1,493	1,661	1,167	4,321
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	-	79	79	4,949	737	1,473	7,159
Finished Aviation Gasoline	-	-	-	-	30	-	30
Kerosene-Type Jet Fuel	3,743	-	3,743	6,516	1,084	971	8,571
Kerosene	-30	-	-30	59	-	8	67
Distillate Fuel Oil	8,877	625	9,502	18,958	4,924	10,781	34,663
15 ppm sulfur and under	8,810	524	9,334	18,951	4,924	10,932	34,807
Greater than 15 ppm to 500 ppm sulfur	49	85	134	-23	-	-108	-131
Greater than 500 ppm sulfur	18	16	34	30	-	-43	-13
Residual Fuel Oil	1,153	1	1,154	911	173	118	1,202
Less than 0.31 percent sulfur	-	-	-	78	-	-	78
0.31 to 1.00 percent sulfur	763	1	764	16	75	-	91
Greater than 1.00 percent sulfur	390	-	390	817	98	118	1,033
Petrochemical Feedstocks	59	-	59	805	-	35	840
Naphtha for Petro. Feed. Use	59	-	59	489	-	-	489
Other Oils for Petro. Feed. Use	-	-	-	316	-	35	351
Special Naphthas	-	26	26	-32	-	17	-15
Lubricants	200	181	381	-	-	193	193
Waxes	-	15	15	-	-	30	30
Petroleum Coke	788	12	800	3,571	875	885	5,331
Marketable	174	-	174	2,626	712	664	4,002
Catalyst	614	12	626	945	163	221	1,329
Asphalt and Road Oil	612	388	1,000	2,627	1,094	250	3,971
Still Gas	1,235	39	1,274	2,652	604	1,101	4,357
Miscellaneous Products	51	15	66	275	117	51	443
Total	18,743	2,190	20,933	47,452	11,919	17,773	77,144
Processing Gain(-) or Loss(+) ¹	-1,645	84	-1,561	-3,843	-1,221	-1,458	-6,522

See footnotes at end of table.

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, June 2019
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	1,145	7,609	6,652	45	78	15,529	585	2,273	25,782
Natural Gas Liquids	740	4,465	3,509	29	78	8,821	507	2,290	17,452
Ethane	1	109	21	—	—	131	—	—	131
Propane	319	2,268	2,142	5	41	4,775	278	1,059	9,012
Normal Butane	430	2,767	1,095	24	38	4,354	203	1,100	8,608
Isobutane	-10	-679	251	—	-1	-439	26	131	-299
Natural Gasoline	—	—	—	—	—	—	—	—	—
Refinery Olefins	405	3,144	3,143	16	—	6,708	78	-17	8,330
Ethylene	—	—	—	—	—	—	—	—	7
Propylene	382	3,372	3,250	16	—	7,020	3	153	8,705
Normal Butylene	23	-184	-107	—	—	-268	75	-170	-364
Isobutylene	—	-44	—	—	—	-44	—	—	-18
Finished Motor Gasoline	2,583	12,014	9,707	471	662	25,437	4,896	2,641	45,983
Reformulated	—	—	—	—	—	—	—	643	1,323
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	643	1,323
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	2,583	12,014	9,707	471	662	25,437	4,896	1,998	44,660
Conventional Blended with Fuel Ethanol	2,224	513	1,895	429	481	5,542	2,912	351	13,896
Ed55 and Lower	2,223	513	1,895	429	481	5,541	2,912	351	13,895
Greater than Ed55	1	—	—	—	—	1	—	—	1
Conventional Other	359	11,501	7,812	42	181	19,895	1,984	1,647	30,764
Finished Aviation Gasoline	75	70	116	—	—	261	6	101	398
Kerosene-Type Jet Fuel	1,413	13,857	12,752	223	—	28,245	961	14,864	56,384
Kerosene	6	—	-54	—	—	-48	—	0	-11
Distillate Fuel Oil	6,593	44,748	36,842	2,379	1,481	92,043	6,834	16,581	159,623
15 ppm sulfur and under	6,566	42,475	30,024	2,260	1,481	82,806	6,842	15,814	149,603
Greater than 15 ppm to 500 ppm sulfur	27	323	2,936	89	—	3,375	27	334	3,739
Greater than 500 ppm sulfur	—	1,950	3,882	30	—	5,862	-35	433	6,281
Residual Fuel Oil	323	1,502	4,047	-8	182	6,046	360	3,846	12,608
Less than 0.31 percent sulfur	194	36	1,047	—	—	1,277	193	—	1,548
0.31 to 1.00 percent sulfur	—	124	441	-8	—	557	19	395	1,826
Greater than 1.00 percent sulfur	129	1,342	2,559	—	182	4,212	148	3,451	9,234
Petrochemical Feedstocks	137	5,081	2,662	—	—	7,880	—	2	8,781
Naphtha for Petro. Feed. Use	124	3,618	1,420	—	—	5,162	—	2	5,712
Other Oils for Petro. Feed. Use	13	1,463	1,242	—	—	2,718	—	—	3,069
Special Naphthas	81	635	—	198	—	914	—	42	967
Lubricants	27	1,683	1,198	864	—	3,772	—	534	4,880
Waxes	—	35	42	27	—	104	—	—	149
Petroleum Coke	406	8,222	5,434	146	31	14,239	757	4,455	25,582
Marketable	166	6,318	4,085	132	—	10,701	522	3,391	18,790
Catalyst	240	1,904	1,349	14	31	3,538	235	1,064	6,792
Asphalt and Road Oil	204	636	708	1,108	42	2,698	1,417	903	9,989
Still Gas	637	5,621	4,081	203	95	10,637	688	3,651	20,607
Miscellaneous Products	107	941	445	19	13	1,525	110	386	2,530
Total	13,737	102,654	84,632	5,675	2,584	209,282	16,614	50,279	374,252
Processing Gain(-) or Loss(+) ¹	-894	-10,312	-7,077	11	-28	-18,300	-754	-5,468	-32,605

— = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 32. Blender Net Inputs of Petroleum Products by PAD District, June 2019
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	84	—	84	3	9	63	75
Natural Gas Liquids	84	—	84	3	9	63	75
Normal Butane	11	—	11	3	9	22	34
Isobutane	—	—	—	—	—	—	—
Natural Gasoline	73	—	73	—	—	41	41
Other Liquids	91,496	6,756	98,252	46,290	9,015	14,078	69,383
Oxygenates/Renewables	9,647	713	10,360	5,017	1,180	1,540	7,737
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	9,647	713	10,360	5,017	1,180	1,540	7,737
Fuel Ethanol	9,469	673	10,142	4,823	972	1,485	7,280
Renewable Diesel Fuel ²	178	40	218	194	208	55	457
Other Renewable Fuels	—	—	—	—	—	—	—
Unfinished Oils (net)	—	—	—	76	—	—	76
Naphthas and Lighter	—	—	—	—	—	—	—
Kerosene and Light Gas Oils	—	—	—	—	—	—	—
Heavy Gas Oils	—	—	—	—	—	—	—
Residuum	—	—	—	76	—	—	76
Motor Gasoline Blend.Comp. (MGBC)(net)	81,849	6,043	87,892	41,197	7,835	12,538	61,570
Reformulated - RBOB	26,238	267	26,505	7,543	1,352	813	9,708
Conventional	55,611	5,776	61,387	33,654	6,483	11,725	51,862
CBOB	44,028	5,776	49,804	33,587	6,430	11,722	51,739
GTAB	4,641	—	4,641	—	—	—	—
Other	6,942	—	6,942	67	53	3	123
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—
Total Input	91,580	6,756	98,336	46,293	9,024	14,141	69,458

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	14	644	2	1	—	661	21	5	846
Natural Gas Liquids	14	644	2	1	—	661	21	5	846
Normal Butane	—	60	2	1	—	63	6	5	119
Isobutane	—	—	—	—	—	—	2	—	2
Natural Gasoline	14	584	—	—	—	598	13	—	725
Other Liquids	17,985	11,537	3,327	9,013	1,176	43,038	4,911	45,735	261,319
Oxygenates/Renewables	1,916	826	324	1,013	133	4,212	664	5,080	28,053
Oxygenates (excluding Fuel Ethanol)	—	4	—	—	—	4	—	—	4
Methyl Tertiary Butyl Ether (MTBE)	—	4	—	—	—	4	—	—	4
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	1,916	822	324	1,013	133	4,208	664	5,080	28,049
Fuel Ethanol	1,838	782	324	984	121	4,049	655	4,742	26,868
Renewable Diesel Fuel ²	78	40	—	29	12	159	9	330	1,173
Other Renewable Fuels	—	—	—	—	—	—	—	8	8
Unfinished Oils (net)	—	-59	82	—	—	23	—	—	99
Naphthas and Lighter	—	—	—	—	—	—	—	—	—
Kerosene and Light Gas Oils	—	-59	—	—	—	-59	—	—	-59
Heavy Gas Oils	—	—	82	—	—	82	—	—	82
Residuum	—	—	—	—	—	—	—	—	76
Motor Gasoline Blend.Comp. (MGBC)(net)	16,069	10,770	2,921	8,000	1,043	38,803	4,247	40,655	233,167
Reformulated - RBOB	6,842	4,586	—	—	—	11,428	—	29,985	77,626
Conventional	9,227	6,184	2,921	8,000	1,043	27,375	4,247	10,670	155,541
CBOB	9,227	-537	1,812	8,000	1,035	19,537	4,246	10,670	135,996
GTAB	—	—	—	—	—	—	—	—	4,641
Other	—	6,721	1,109	—	8	7,838	1	—	14,904
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—	—	—
Total Input	17,999	12,181	3,329	9,014	1,176	43,699	4,932	45,740	262,165

— = No Data Reported.

¹ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

² Renewable diesel fuel includes biodiesel and other renewable diesel.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal and Blender Report."

Table 33. Blender Net Production of Petroleum Products by PAD District, June 2019
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Finished Motor Gasoline	91,473	6,713	98,186	46,028	8,818	14,088	68,934
Reformulated	39,142	391	39,533	8,491	1,508	904	10,903
Reformulated Blended with Fuel Ethanol	39,142	391	39,533	8,491	1,508	904	10,903
Reformulated Other	-	-	-	-	-	-	-
Conventional	52,331	6,322	58,653	37,537	7,310	13,184	58,031
Conventional Blended with Fuel Ethanol	54,782	6,335	61,117	39,183	7,998	13,361	60,542
Ed55 and Lower	54,740	6,335	61,075	39,170	7,967	13,290	60,427
Greater than Ed55	42	-	42	13	31	71	115
Conventional Other	-2,451	-13	-2,464	-1,646	-688	-177	-2,511
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	-	0	-26	-	0	-26
Kerosene	2	-	2	-	-	-	-
Distillate Fuel Oil	160	43	203	218	206	54	478
15 ppm sulfur and under	178	43	221	218	206	54	478
Greater than 15 ppm to 500 ppm sulfur	34	-	34	-	-	-	-
Greater than 500 ppm sulfur	-52	-	-52	-	-	-	-
Residual Fuel Oil	17	-	17	-	-	-	-
Less than 0.31 percent sulfur	-7	-	-7	-	-	-	-
0.31 to 1.00 percent sulfur	-	-	-	-	-	-	-
Greater than 1.00 percent sulfur	24	-	24	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	-	76	1	2	79
Miscellaneous Products	-	-	-	-	-	-	-
Total Production	91,652	6,756	98,408	46,296	9,025	14,144	69,465
Processing Gain(-) or Loss(+) ¹	-72	0	-72	-3	-1	-3	-7

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Finished Motor Gasoline	17,921	12,198	3,247	8,989	1,163	43,518	4,920	45,401	260,959
Reformulated	7,571	6,676	-	-	-	14,247	-	33,329	98,012
Reformulated Blended with Fuel Ethanol	7,571	6,676	-	-	-	14,247	-	33,329	98,012
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	10,350	5,522	3,247	8,989	1,163	29,271	4,920	12,072	162,947
Conventional Blended with Fuel Ethanol	10,549	1,096	3,221	9,784	1,204	25,854	6,421	13,867	167,801
Ed55 and Lower	10,537	1,096	3,221	9,772	1,204	25,830	6,408	13,865	167,605
Greater than Ed55	12	-	-	12	-	24	13	2	196
Conventional Other	-199	4,426	26	-795	-41	3,417	-1,501	-1,795	-4,854
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	27	11	-	0	38	68	13	93
Kerosene	-	-33	2	-	-	-31	-	-1	-30
Distillate Fuel Oil	77	-196	-13	29	12	-91	-58	321	853
15 ppm sulfur and under	77	39	-13	29	12	144	-58	318	1,103
Greater than 15 ppm to 500 ppm sulfur	-	-	-	-	-	-	-	-	34
Greater than 500 ppm sulfur	-	-235	-	-	-	-235	-	3	-284
Residual Fuel Oil	-	184	82	-	-	266	-	4	287
Less than 0.31 percent sulfur	-	-	79	-	-	79	-	4	76
0.31 to 1.00 percent sulfur	-	-40	-	-	-	-40	-	-	-40
Greater than 1.00 percent sulfur	-	224	3	-	-	227	-	-	251
Special Naphthas	-	-	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	-	-	-	-	-	-	79
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total Production	17,998	12,180	3,329	9,018	1,175	43,700	4,930	45,738	262,241
Processing Gain(-) or Loss(+) ¹	1	1	0	-4	1	-1	2	2	-76

⁻ = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal and Blender Report."

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, June 2019
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	11,670	724	12,394	9,895	2,151	2,277	14,323
Petroleum Products	13,871	2,027	15,898	28,691	7,753	10,869	47,313
Hydrocarbon Gas Liquids	664	26	690	2,901	398	1,031	4,330
Natural Gas Liquids	506	26	532	2,434	379	1,022	3,835
Ethane	—	—	—	—	—	—	—
Propane	65	6	71	608	36	180	824
Normal Butane	322	9	331	1,452	296	203	1,951
Isobutane	119	11	130	258	47	377	682
Natural Gasoline	—	—	—	116	—	262	378
Refinery Olefins	158	0	158	467	19	9	495
Ethylene	—	—	—	—	—	—	—
Propylene	76	0	76	349	19	8	376
Normal Butylene	41	0	41	118	0	1	119
Isobutylene	41	0	41	0	0	0	0
Oxygenates/Renewable Fuels/Other Hydrocarbons ...	129	86	215	101	50	32	183
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	129	86	215	61	50	32	143
Fuel Ethanol	129	81	210	41	40	28	109
Renewable Diesel Fuel ²	—	5	5	20	10	4	34
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	40	—	—	40
Unfinished Oils	4,744	417	5,161	8,348	841	3,931	13,120
Naphthas and Lighter	942	290	1,232	1,979	199	1,246	3,424
Kerosene and Light Gas Oils	828	—	828	1,635	401	365	2,401
Heavy Gas Oils	2,249	122	2,371	3,227	237	1,195	4,659
Residuum	725	5	730	1,507	4	1,125	2,636
Motor Gasoline Blending Components (MGBC)	4,019	230	4,249	7,578	1,780	2,718	12,076
Reformulated - RBOB	1,075	—	1,075	981	—	—	981
Conventional	2,944	230	3,174	6,597	1,780	2,718	11,095
CBOB	505	168	673	2,221	761	1,715	4,697
GTAB	—	—	—	—	—	—	—
Other	2,439	62	2,501	4,376	1,019	1,003	6,398
Aviation Gasoline Blending Components	—	—	—	—	—	—	—
Finished Motor Gasoline	—	36	36	765	205	241	1,211
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	—	36	36	765	205	241	1,211
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	—	36	36	765	205	241	1,211
Finished Aviation Gasoline	—	—	—	—	82	—	82
Kerosene-Type Jet Fuel	646	—	646	1,188	275	200	1,663
Kerosene	77	1	78	116	—	10	126
Distillate Fuel Oil	2,221	254	2,475	3,278	1,154	1,890	6,322
15 ppm sulfur and under	1,866	87	1,953	3,125	1,010	1,730	5,865
Greater than 15 ppm to 500 ppm sulfur	137	148	285	—	9	96	105
Greater than 500 ppm sulfur	218	19	237	153	135	64	352
Residual Fuel Oil	677	23	700	850	260	93	1,203
Less than 0.31 percent sulfur	107	21	128	57	—	—	57
0.31 to 1.00 percent sulfur	144	2	146	89	51	—	140
Greater than 1.00 percent sulfur	426	—	426	704	209	93	1,006
Petrochemical Feedstocks	58	—	58	534	—	—	534
Naphtha for Petro. Feed. Use	58	—	58	434	—	—	434
Other Oils for Petro. Feed. Use	—	—	—	100	—	—	100
Special Naphthas	—	21	21	45	—	15	60
Lubricants	444	206	650	—	—	169	169
Waxes	—	340	340	—	—	46	46
Petroleum Coke	—	—	—	543	970	99	1,612
Marketable	—	—	—	543	970	99	1,612
Catalyst	—	—	—	—	—	—	—
Asphalt and Road Oil	177	367	544	2,361	1,713	385	4,459
Miscellaneous Products	15	20	35	83	25	9	117
Total Stocks, All Oils	25,541	2,751	28,292	38,586	9,904	13,146	61,636

See footnotes at end of table.

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, June 2019
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	1,697	26,965	17,371	1,023	307	47,363	2,747	22,054	98,881
Petroleum Products	10,047	59,521	50,789	4,326	1,341	126,024	11,431	51,930	252,596
Hydrocarbon Gas Liquids	2,805	1,709	4,453	12	68	9,047	502	1,322	15,891
Natural Gas Liquids	2,071	1,404	3,557	11	68	7,111	399	1,268	13,145
Ethane	205	—	—	—	—	205	—	—	205
Propane	388	145	265	2	4	804	47	128	1,874
Normal Butane	1,142	1,002	2,044	5	51	4,244	220	669	7,415
Isobutane	249	223	978	4	6	1,460	117	469	2,858
Natural Gasoline	87	34	270	—	7	398	15	2	793
Refinery Olefins	734	305	896	1	0	1,936	103	54	2,746
Ethylene	0	—	—	—	—	0	—	—	0
Propylene	723	47	535	1	0	1,306	0	12	1,770
Normal Butylene	11	258	361	0	0	630	103	42	935
Isobutylene	0	0	0	0	0	0	0	0	41
Oxygenates/Renewable Fuels/Other Hydrocarbons ...	37	68	282	94	11	492	216	391	1,497
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	37	68	282	94	11	492	216	391	1,457
Fuel Ethanol	33	39	54	37	9	172	127	31	649
Renewable Diesel Fuel ²	4	29	228	57	2	320	89	360	808
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—	—	40
Unfinished Oils	2,464	21,915	16,474	1,093	597	42,543	3,597	20,753	85,174
Naphthas and Lighter	968	6,300	2,536	278	175	10,257	1,011	3,478	19,402
Kerosene and Light Gas Oils	427	3,686	2,252	292	208	6,865	516	3,650	14,260
Heavy Gas Oils	589	10,148	9,343	504	214	20,798	1,500	10,341	39,669
Residuum	480	1,781	2,343	19	—	4,623	570	3,284	11,843
Motor Gasoline Blending Components (MGBC)	2,542	12,714	13,012	326	356	28,950	3,155	13,708	62,138
Reformulated - RBOB	201	1,267	787	—	—	2,255	—	5,159	9,470
Conventional	2,341	11,447	12,225	326	356	26,695	3,155	8,549	52,668
CBOB	1,272	3,602	5,764	219	102	10,959	1,556	2,343	20,228
GTAB	—	—	1	—	—	1	—	—	1
Other	1,069	7,845	6,460	107	254	15,735	1,599	6,206	32,439
Aviation Gasoline Blending Components	21	—	6	—	—	27	—	—	27
Finished Motor Gasoline	181	1,543	1,143	17	—	2,884	713	653	5,497
Reformulated	—	—	—	—	—	—	—	17	17
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	17	17
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	181	1,543	1,143	17	—	2,884	713	636	5,480
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	65	—	65
Ed55 and Lower	—	—	—	—	—	—	65	—	65
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	181	1,543	1,143	17	—	2,884	648	636	5,415
Finished Aviation Gasoline	38	170	148	—	—	356	9	123	570
Kerosene-Type Jet Fuel	327	3,428	2,545	87	—	6,387	271	3,914	12,881
Kerosene	25	5	82	6	—	118	1	2	325
Distillate Fuel Oil	867	6,657	6,469	410	119	14,522	1,781	5,239	30,339
15 ppm sulfur and under	807	5,842	5,045	251	119	12,064	1,624	4,648	26,154
Greater than 15 ppm to 500 ppm sulfur	60	127	705	57	—	949	124	250	1,713
Greater than 500 ppm sulfur	—	688	719	102	—	1,509	33	341	2,472
Residual Fuel Oil	78	2,027	1,519	19	74	3,717	210	2,641	8,471
Less than 0.31 percent sulfur	8	—	203	—	—	211	28	—	424
0.31 to 1.00 percent sulfur	—	119	67	19	—	205	5	331	827
Greater than 1.00 percent sulfur	70	1,908	1,249	—	74	3,301	177	2,310	7,220
Petrochemical Feedstocks	124	1,695	607	22	—	2,448	—	4	3,044
Naphtha for Petro. Feed. Use	46	1,153	552	22	—	1,773	—	4	2,269
Other Oils for Petro. Feed. Use	78	542	55	—	—	675	—	—	775
Special Naphthas	93	774	—	108	—	975	—	29	1,085
Lubricants	47	2,031	1,615	933	—	4,626	—	563	6,008
Waxes	—	55	137	85	—	277	—	—	663
Petroleum Coke	17	4,297	1,715	—	—	6,029	111	1,665	9,417
Marketable	17	4,297	1,715	—	—	6,029	111	1,665	9,417
Catalyst	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	365	201	477	1,113	94	2,250	849	851	8,953
Miscellaneous Products	16	232	105	1	22	376	16	72	616
Total Stocks, All Oils	11,744	86,486	68,160	5,349	1,648	173,387	14,178	73,984	351,477

¹ = No Data Reported.

¹ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

² Renewable diesel fuel includes biodiesel and other renewable diesel.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 35. Percent Yield of Petroleum Products by PAD and Refining Districts, June 2019

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	4.5	1.8	4.3	6.3	3.9	2.5	5.1
Finished Motor Gasoline ¹	46.5	34.2	45.7	49.8	47.6	50.0	49.6
Finished Aviation Gasoline ²	—	—	—	—	0.2	—	0.0
Kerosene-Type Jet Fuel	12.2	—	11.4	8.8	6.9	3.6	7.3
Kerosene	-0.1	—	-0.1	0.1	—	0.0	0.1
Distillate Fuel Oil ³	28.9	28.5	28.9	25.5	30.9	39.4	29.5
Residual Fuel Oil	3.8	0.1	3.5	1.2	1.1	0.4	1.0
Naphtha for Petro. Feed. Use	0.2	—	0.2	0.7	—	—	0.4
Other Oils for Petro. Feed. Use	—	—	—	0.4	—	0.1	0.3
Special Naphthas	—	1.2	0.1	0.0	—	0.1	0.0
Lubricants	0.7	8.4	1.2	—	—	0.7	0.2
Waxes	—	0.7	0.1	—	—	0.1	0.0
Petroleum Coke	2.6	0.6	2.4	4.8	5.6	3.2	4.6
Asphalt and Road Oil	2.0	18.1	3.1	3.6	7.0	0.9	3.4
Still Gas	4.0	1.8	3.9	3.6	3.8	4.0	3.7
Miscellaneous Products	0.2	0.7	0.2	0.4	0.7	0.2	0.4
Processing Gain(-) or Loss(+) ⁴	-5.6	3.9	-5.0	-5.2	-7.8	-5.4	-5.6

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	5.4	5.5	5.7	0.7	2.0	5.4	2.9	2.9	4.8
Finished Motor Gasoline ¹	52.4	42.4	41.9	22.9	50.6	42.6	46.3	47.5	45.2
Finished Aviation Gasoline ²	0.4	0.1	0.1	—	—	0.1	0.0	0.1	0.1
Kerosene-Type Jet Fuel	6.6	10.0	10.9	3.3	—	9.8	4.7	18.7	10.5
Kerosene	0.0	—	-0.1	—	—	0.0	—	0.0	0.0
Distillate Fuel Oil ³	30.5	32.1	31.5	35.1	38.6	31.9	33.4	20.4	29.6
Residual Fuel Oil	1.5	1.1	3.5	-0.1	4.8	2.1	1.8	4.8	2.3
Naphtha for Petro. Feed. Use	0.6	2.6	1.2	—	—	1.8	—	0.0	1.1
Other Oils for Petro. Feed. Use	0.1	1.1	1.1	—	—	0.9	—	—	0.6
Special Naphthas	0.4	0.5	—	2.9	—	0.3	—	0.1	0.2
Lubricants	0.1	1.2	1.0	12.8	—	1.3	—	0.7	0.9
Waxes	—	0.0	0.0	0.4	—	0.0	—	—	0.0
Petroleum Coke	1.9	5.9	4.7	2.2	0.8	4.9	3.7	5.6	4.8
Asphalt and Road Oil	1.0	0.5	0.6	16.4	1.1	0.9	7.0	1.1	1.9
Still Gas	3.0	4.0	3.5	3.0	2.5	3.7	3.4	4.6	3.8
Miscellaneous Products	0.5	0.7	0.4	0.0	0.0	0.5	0.5	0.5	0.5
Processing Gain(-) or Loss(+) ⁴	-4.2	-7.4	-6.1	0.1	-0.7	-6.4	-3.7	-6.9	-6.1

— = No Data Reported.

¹ Based on net production of finished motor gasoline minus input of natural gas plant liquids, fuel ethanol, oxygenates, and net input of motor gasoline blending components.

² Based on finished aviation gasoline net production minus net input of aviation gasoline blending components.

³ Based on distillate fuel oil net production minus input of biodiesel, "other" renewable diesel fuels, and "other" renewable fuels.

⁴ Represents the arithmetic difference between input and production.

Note: Percent yield is calculated as net production (or adjusted net production) divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Calculated from data on Tables 30 and 31.

Table 36. Imports of Residual Fuel Oil by Sulfur Content and by PAD District and State of Entry, June 2019
(Thousand Barrels)

PAD District and State of Entry	Residual Fuel Oil		
	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
PAD District 1	511	1,280	1,791
Connecticut	—	—	—
Delaware	—	—	—
Florida	209	219	428
Georgia	—	—	—
Maine	—	—	—
Maryland	—	—	—
Massachusetts	—	—	—
New Hampshire	—	—	—
New Jersey	—	961	961
New York	300	100	400
North Carolina	—	—	—
Pennsylvania	—	—	—
Rhode Island	—	—	—
South Carolina	—	—	—
Vermont	2	—	2
Virginia	—	—	—
West Virginia	—	—	—
PAD District 2	6	107	113
Illinois	—	—	—
Indiana	—	—	—
Michigan	—	107	107
Minnesota	1	—	1
North Dakota	5	—	5
Ohio	—	—	—
Wisconsin	—	—	—
PAD District 3	—	505	505
Alabama	—	—	—
Louisiana	—	—	—
Mississippi	—	—	—
New Mexico	—	—	—
Texas	—	505	505
PAD District 4	—	—	—
Idaho	—	—	—
Montana	—	—	—
PAD District 5	233	177	410
Alaska	—	—	—
California	—	177	177
Hawaii	—	—	—
Oregon	—	—	—
Washington	233	—	233
U.S. Total	750	2,069	2,819

— = No Data Reported.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 37. Imports of Crude Oil and Petroleum Products by PAD District, June 2019
(Thousand Barrels, Except Where Noted)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	25,145	77,450	61,336	9,048	41,254	214,233	7,141
Hydrocarbon Gas Liquids	1,074	2,128	85	132	1,276	4,695	157
Natural Gas Liquids	836	1,938	—	132	1,276	4,182	139
Ethane	—	—	—	—	—	—	—
Propane	595	1,433	—	119	824	2,971	99
Normal Butane	20	342	—	—	425	787	26
Isobutane	221	159	—	13	27	420	14
Natural Gasoline	—	4	—	—	—	4	0
Refinery Olefins	238	190	85	—	—	513	17
Ethylene	—	—	—	—	—	—	—
Propylene	238	141	—	—	—	379	13
Normal Butylene	—	49	85	—	—	134	4
Isobutylene	—	—	—	—	—	—	—
Other Liquids	19,925	434	16,650	130	4,354	41,493	1,383
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	103	84	129	21	1,276	1,613	54
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	129	—	—	129	4
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
Other Oxygenates ³	—	—	129	—	—	129	4
Renewable Fuels (including Fuel Ethanol)	103	84	—	21	1,276	1,484	49
Fuel Ethanol	—	—	—	—	574	574	19
Biodiesel	103	84	—	21	102	310	10
Other Renewable Diesel Fuel	—	—	—	—	600	600	20
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—
Unfinished Oils ¹	1,488	—	14,930	—	2,306	18,724	624
Naphthas and Lighter	466	—	325	—	—	791	26
Kerosene and Lighter Gas Oils	—	—	20	—	—	20	1
Heavy Gas Oils	1,022	—	8,667	—	2,306	11,995	400
Residuum	—	—	5,918	—	—	5,918	197
Motor Gasoline Blend Comp. (MGBC)	18,334	350	1,591	109	772	21,156	705
Reformulated - RBOB	5,087	—	—	—	315	5,402	180
Conventional	13,247	350	1,591	109	457	15,754	525
CBOB	1,103	103	—	—	—	1,206	40
GTAB	4,134	—	55	—	—	4,189	140
Other	8,010	247	1,536	109	457	10,359	345
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	7,963	1,014	2,900	103	4,754	16,734	558
Finished Motor Gasoline	910	—	—	—	365	1,275	43
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	910	—	—	—	365	1,275	43
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	910	—	—	—	365	1,275	43
Finished Aviation Gasoline	1	5	—	—	7	13	0
Kerosene-Type Jet Fuel	2,055	—	—	—	3,172	5,227	174
Bonded Aircraft Fuel	464	—	—	—	1,041	1,505	50
Other	1,591	—	—	—	2,131	3,722	124
Kerosene	—	—	—	—	—	—	—
Distillate Fuel Oil	2,235	340	330	96	510	3,511	117
15 ppm sulfur and under	1,853	276	—	96	509	2,734	91
Bonded	—	—	—	—	—	—	—
Other	1,853	276	—	96	509	2,734	91
Greater than 15 ppm to 500 ppm sulfur	42	—	—	—	—	42	1
Bonded	—	—	—	—	—	—	—
Other	42	—	—	—	—	42	1
Greater than 500 ppm to 2000 ppm sulfur	340	40	—	—	1	381	13
Bonded	—	—	—	—	—	—	—
Other	340	40	—	—	1	381	13
Greater than 2000 ppm	—	24	330	—	—	354	12
Bonded	—	—	—	—	—	—	—
Other	—	24	330	—	—	354	12
Residual Fuel Oil	1,791	113	505	—	410	2,819	94
Less than 0.31 percent sulfur	—	—	—	—	—	—	—
0.31 to 1.00 percent sulfur	511	6	—	—	233	750	25
Greater than 1.00 percent sulfur	1,280	107	505	—	177	2,069	69
Petrochemical Feedstocks	4	168	283	—	70	525	18
Naphtha for Petro. Feed. Use	4	83	283	—	70	440	15
Other Oils for Petro. Feed. Use	—	85	—	—	—	85	3
Special Naphthas	—	9	569	—	—	578	19
Lubricants	141	124	1,062	—	11	1,338	45
Waxes	43	3	19	—	94	159	5
Petroleum Coke (Marketable)	1	24	132	—	32	189	6
Asphalt and Road Oil	782	228	—	6	83	1,099	37
Miscellaneous Products	—	—	—	1	—	1	0
Total	54,107	81,026	80,971	9,413	51,638	277,155	9,239

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 38. Year-to-Date Imports of Crude Oil and Petroleum Products by PAD District, January-June 2019
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	142,078	461,210	392,287	53,513	226,696	1,275,784	7,049
Hydrocarbon Gas Liquids	10,090	16,986	576	2,223	9,966	39,841	220
Natural Gas Liquids	8,651	15,298	—	2,223	9,966	36,138	200
Ethane	—	—	—	—	—	—	—
Propane	7,243	11,194	—	1,852	6,074	26,363	146
Normal Butane	291	3,178	—	271	3,474	7,214	40
Isobutane	1,117	900	—	100	418	2,535	14
Natural Gasoline	—	26	—	—	—	26	0
Refinery Olefins	1,439	1,688	576	—	—	3,703	20
Ethylene	—	—	—	—	—	—	—
Propylene	1,439	1,320	—	—	—	2,759	15
Normal Butylene	—	338	576	—	—	914	5
Isobutylene	—	—	—	—	—	30	0
Other Liquids	113,033	2,874	94,145	839	28,783	239,674	1,324
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	1,084	528	705	84	4,373	6,774	37
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	565	—	—	565	3
Methyl Tertiary Butyl Ether (MTBE)	—	—	126	—	—	126	1
Other Oxygenates ³	—	—	439	—	—	439	2
Renewable Fuels (including Fuel Ethanol)	1,084	528	113	84	4,373	6,182	34
Fuel Ethanol	—	—	—	—	1,138	1,138	6
Biodiesel	1,084	528	113	84	276	2,085	12
Other Renewable Diesel Fuel	—	—	—	—	2,959	2,959	16
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	27	—	—	27	0
Unfinished Oils ¹	10,129	255	79,777	—	13,631	103,792	573
Naphthas and Lighter	3,184	28	973	—	397	4,582	25
Kerosene and Lighter Gas Oils	—	—	95	—	—	95	1
Heavy Gas Oils	6,945	227	54,822	—	13,189	75,183	415
Residuum	—	—	23,887	—	45	23,932	132
Motor Gasoline Blend.Comp. (MGBC)	101,820	2,091	13,663	755	10,779	129,108	713
Reformulated - RBOB	27,871	—	325	—	2,255	30,451	168
Conventional	73,949	2,091	13,338	755	8,524	98,657	545
CBOB	6,660	569	—	—	1,371	8,600	48
GTAB	16,661	—	648	—	607	17,916	99
Other	50,628	1,522	12,690	755	6,546	72,141	399
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	70,401	5,302	20,989	900	29,337	126,929	701
Finished Motor Gasoline	9,799	1	512	—	2,697	13,009	72
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	9,799	1	512	—	2,697	13,009	72
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	9,799	1	512	—	2,697	13,009	72
Finished Aviation Gasoline	25	18	59	2	24	128	1
Kerosene-Type Jet Fuel	10,250	—	30	—	18,165	28,445	157
Bonded Aircraft Fuel	2,413	—	—	—	6,123	8,536	47
Other	7,837	—	30	—	12,042	19,909	110
Kerosene	101	—	—	—	—	101	1
Distillate Fuel Oil	31,166	1,651	1,107	604	2,284	36,812	203
15 ppm sulfur and under	30,016	1,195	516	604	2,278	34,609	191
Bonded	—	—	—	—	—	—	—
Other	30,016	1,195	516	604	2,278	34,609	191
Greater than 15 ppm to 500 ppm sulfur	565	—	—	—	—	565	3
Bonded	—	—	—	—	—	—	—
Other	565	—	—	—	—	565	3
Greater than 500 ppm to 2000 ppm sulfur	585	302	261	—	6	1,154	6
Bonded	—	—	—	—	—	—	—
Other	585	302	261	—	6	1,154	6
Greater than 2000 ppm	—	154	330	—	—	484	3
Bonded	—	—	—	—	—	—	—
Other	—	154	330	—	—	484	3
Residual Fuel Oil	13,346	421	8,457	97	4,238	26,559	147
Less than 0.31 percent sulfur	939	—	1,591	—	338	2,868	16
0.31 to 1.00 percent sulfur	1,623	143	578	—	1,365	3,709	20
Greater than 1.00 percent sulfur	10,784	278	6,288	97	2,535	19,982	110
Petrochemical Feedstocks	18	968	1,884	—	213	3,083	17
Naphtha for Petro. Feed. Use	7	491	1,745	—	213	2,456	14
Other Oils for Petro. Feed. Use	11	477	139	—	—	627	3
Special Naphthas	2	36	2,425	—	—	2,463	14
Lubricants	999	694	5,500	1	496	7,690	42
Waxes	428	34	165	—	309	936	5
Petroleum Coke (Marketable)	21	166	850	—	142	1,179	7
Asphalt and Road Oil	4,246	1,313	—	190	769	6,518	36
Miscellaneous Products	—	—	—	6	—	6	0
Total	335,602	486,372	507,997	57,475	294,782	1,682,228	9,294

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, June 2019
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	46,767	—	—	3,529	—	—	—	—	492	492
Algeria	998	—	—	2,674	—	—	—	—	—	—
Angola	3,363	—	—	325	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Ecuador	4,433	—	—	33	—	—	—	—	—	—
Equatorial Guinea	496	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	10,653	—	—	—	—	—	—	—	—	—
Kuwait	770	—	—	—	—	—	—	—	—	—
Libya	1,649	—	—	—	—	—	—	—	—	—
Nigeria	7,544	—	—	—	—	—	—	—	—	—
Saudi Arabia	16,861	—	—	497	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	492	492
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	167,466	4,182	513	15,195	—	1,275	1,275	5,402	15,262	20,664
Argentina	299	55	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	1,688	—	—	—	15	644	659
Brazil	3,902	—	—	30	—	—	—	—	1,869	1,869
Brunei	900	—	—	—	—	—	—	—	—	—
Cameroon	681	—	—	299	—	—	—	—	—	—
Canada	114,817	4,127	428	718	—	391	391	2,754	1,744	4,498
Chad	476	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	10,168	—	—	46	—	—	—	—	455	455
Denmark	1,033	—	—	—	—	—	—	1	—	1
Egypt	1,782	—	—	1,896	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	107	601	708
France	—	—	65	—	—	292	292	276	85	361
Germany	—	—	—	87	—	—	—	1	10	11
Guatemala	281	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	2,069	2,069
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	126	—	—	—	88	588	676
Korea, South	—	—	—	—	—	293	293	—	26	26
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	12	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—
Mexico	16,355	—	20	—	—	—	—	—	—	—
Netherlands	—	—	—	121	—	—	—	414	1,559	1,973
Norway	4,527	—	—	—	—	—	—	242	824	1,066
Oman	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	817	817
Qatar	—	—	—	—	—	—	—	—	—	—
Russia	5,779	—	—	8,377	—	—	—	31	836	867
Spain	—	—	—	628	—	—	—	1	570	571
Sweden	—	—	—	39	—	—	—	35	40	75
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	1,495	—	—	—	—	—	—	—	350	350
United Kingdom	1,836	—	—	197	—	299	299	1,429	883	2,312
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	3,135	0	0	931	—	0	0	8	1,292	1,300
Total	214,233	4,182	513	18,724	—	1,275	1,275	5,402	15,754	21,156
Persian Gulf³	28,284	—	—	497	—	—	—	—	492	492

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, June 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	—	—	—	—	—	—	—	—	—	156	156
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	156	156
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	129	574	310	600	—	2,734	42	381	198	3,355
Argentina	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	129	574	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	132	—	—	2,039	42	381	24	2,486
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	695	—	—	—	695
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	92	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	57	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	174	174
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	—	0	0	29	600	—	0	0	0	0	0
Total	—	129	574	310	600	—	2,734	42	381	354	3,511
Persian Gulf³	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, June 2019
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	13	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	6	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	7	—	—	—	—	—
Non-OPEC	—	13	—	5,214	578	—	750	2,069	2,819
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	13	—	1,215	9	—	563	305	868
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	40	439	479
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	2,991	472	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	20	498	518
Netherlands	—	—	—	—	—	—	—	80	80
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	99	723	822
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	—	1,008	97	—	28	24	52
Total	—	13	—	5,227	578	—	750	2,069	2,819
Persian Gulf³	—	—	—	6	—	—	—	—	—

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, June 2019
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	—	—	—	4,190	50,957	1,559	140	1,699
Algeria	—	—	—	—	—	—	—	2,674	3,672	33	89	122
Angola	—	—	—	—	—	—	—	325	3,688	112	11	123
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	189	4,622	148	6	154
Equatorial Guinea	—	—	—	—	—	—	—	—	496	17	—	17
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	6	10,659	355	0	355
Kuwait	—	—	—	—	—	—	—	—	770	26	—	26
Libya	—	—	—	—	—	—	—	—	1,649	55	—	55
Nigeria	—	—	—	—	—	—	—	—	7,544	251	—	251
Saudi Arabia	—	—	—	—	—	—	—	497	17,358	562	17	579
United Arab Emirates	—	—	—	—	—	—	—	492	492	—	16	16
Venezuela	—	—	—	—	—	—	—	7	7	—	0	0
Non-OPEC	440	85	159	189	1,099	1,338	1	58,732	226,198	5,582	1,958	7,540
Argentina	—	—	—	132	—	3	—	190	489	10	6	16
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	47	—	47	47	—	2	2
Belgium	—	—	—	—	—	21	—	2,368	2,368	—	79	79
Brazil	—	—	—	—	—	—	—	2,602	6,504	130	87	217
Brunei	—	—	—	—	—	—	—	—	900	30	—	30
Cameroon	—	—	—	—	—	—	—	299	980	23	10	33
Canada	83	85	39	55	1,027	243	1	16,418	131,235	3,827	547	4,375
Chad	—	—	—	—	—	—	—	—	476	16	—	16
China	—	—	90	—	—	—	—	90	90	—	3	3
Colombia	—	—	—	—	—	—	—	1,675	11,843	339	56	395
Denmark	—	—	—	—	—	1	—	1	1,034	34	0	34
Egypt	—	—	—	—	—	—	—	1,896	3,678	59	63	123
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	708	708	—	24	24
France	—	—	—	—	—	16	—	734	734	—	24	24
Germany	—	—	—	—	—	15	—	205	205	—	7	7
Guatemala	—	—	—	—	—	—	—	—	281	9	—	9
India	—	—	—	—	—	—	—	2,069	2,069	—	69	69
Indonesia	—	—	—	—	—	125	—	125	125	—	4	4
Italy	—	—	—	—	—	13	—	815	815	—	27	27
Korea, South	—	—	1	—	—	330	—	4,170	4,170	—	139	139
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	12	12	—	0	0
Malaysia	—	—	3	—	—	—	—	3	3	—	0	0
Mexico	231	—	—	—	—	—	—	769	17,124	545	26	571
Netherlands	—	—	—	—	—	1	—	2,175	2,175	—	73	73
Norway	—	—	—	—	—	—	—	1,066	5,593	151	36	186
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	817	817	—	27	27
Qatar	—	—	—	—	—	520	—	520	520	—	17	17
Russia	—	—	—	—	—	—	—	10,240	16,019	193	341	534
Spain	—	—	—	—	—	—	—	1,199	1,199	—	40	40
Sweden	—	—	—	2	—	2	—	118	118	—	4	4
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	350	1,845	50	12	62
United Kingdom	33	—	—	—	—	1	—	2,842	4,678	61	95	156
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	93	0	26	0	72	1	0	4,209	7,344	105	140	244
Total	440	85	159	189	1,099	1,338	1	62,922	277,155	7,141	2,097	9,239
Persian Gulf³	—	—	—	—	—	567	—	1,562	29,846	943	52	995

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-June 2019
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	298,671	—	—	20,204	—	81	81	—	4,888	4,888
Algeria	6,413	—	—	14,103	—	—	—	—	—	—
Angola	6,319	—	—	651	—	—	—	—	—	—
Congo (Brazzaville)	4,640	—	—	173	—	—	—	—	—	—
Ecuador	29,337	—	—	33	—	—	—	—	—	—
Equatorial Guinea	2,118	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	63,580	—	—	—	—	—	—	—	—	—
Kuwait	11,873	—	—	—	—	—	—	—	—	—
Libya	10,451	—	—	916	—	—	—	—	—	—
Nigeria	28,578	—	—	360	—	—	—	840	840	840
Saudi Arabia	105,961	—	—	1,501	—	81	81	—	2,250	2,250
United Arab Emirates	—	—	—	2,422	—	—	—	—	492	492
Venezuela	29,401	—	—	45	—	—	—	—	1,306	1,306
Non-OPEC	977,113	36,138	3,703	83,588	—	12,928	12,928	30,451	93,769	124,220
Argentina	5,675	254	—	—	—	—	—	—	451	451
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	398	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	9,711	—	253	253	505	3,500	4,005
Brazil	19,179	—	—	1,155	—	—	—	—	9,110	9,110
Brunei	2,934	—	—	—	—	—	—	—	—	—
Cameroon	1,339	—	—	793	—	—	—	—	—	—
Canada	688,572	35,081	3,127	4,396	—	2,886	2,886	15,664	12,150	27,814
Chad	1,425	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	146	146
Colombia	67,223	—	—	476	—	—	—	—	2,195	2,195
Denmark	3,842	—	—	—	—	—	—	9	399	408
Egypt	3,846	—	—	4,378	—	138	138	—	85	85
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	227	227	107	4,359	4,466
France	—	—	65	438	—	3,431	3,431	276	1,231	1,507
Germany	—	—	—	1,188	—	8	8	3	720	723
Guatemala	1,107	—	—	—	—	—	—	—	—	—
India	—	—	—	919	—	—	—	—	13,028	13,028
Indonesia	—	—	—	—	—	—	—	—	566	566
Italy	—	—	—	1,324	—	150	150	88	3,582	3,670
Korea, South	—	—	—	—	—	1,264	1,264	—	1,104	1,104
Latvia	—	—	—	—	—	—	—	—	69	69
Lithuania	—	—	—	12	—	—	—	—	325	325
Malaysia	—	—	—	289	—	—	—	—	—	—
Mexico	110,751	—	87	—	—	—	—	—	1,070	1,070
Netherlands	486	—	—	2,325	—	1,219	1,219	5,839	8,419	14,258
Norway	12,531	309	—	3,549	—	198	198	249	3,168	3,417
Oman	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	558	5,395	5,953
Qatar	—	—	—	—	—	—	—	—	—	—
Russia	25,721	—	—	40,983	—	300	300	31	5,556	5,587
Spain	194	—	—	2,427	—	—	—	1	5,417	5,418
Sweden	—	191	—	1,439	—	158	158	35	478	513
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	7,386	—	—	—	—	—	—	—	350	350
United Kingdom	11,990	192	—	1,146	—	2,086	2,086	7,078	4,293	11,371
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	12,912	111	424	6,242	—	610	610	8	6,603	6,611
Total	1,275,784	36,138	3,703	103,792	—	13,009	13,009	30,451	98,657	129,108
Persian Gulf³	181,414	—	—	3,923	—	81	81	—	2,742	2,742

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-June 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	—	—	—	—	—	—	1,999	—	—	156	2,155
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	156	156
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	312	—	—	—	312
Saudi Arabia	—	—	—	—	—	—	1,193	—	—	—	1,193
United Arab Emirates	—	—	—	—	—	—	200	—	—	—	200
Venezuela	—	—	—	—	—	—	294	—	—	—	294
Non-OPEC	126	439	1,138	2,085	2,959	—	32,610	565	1,154	328	34,657
Argentina	126	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	501	—	—	—	501
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	143	—	—	—	—	—	—	—
Brazil	—	439	1,138	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	792	—	—	18,640	289	893	154	19,976
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	279	—	—	—	279
Colombia	—	—	—	—	—	—	3,758	—	—	—	3,758
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	121	—	—	—	—	—	—	—
Germany	—	—	—	630	—	—	—	—	106	—	106
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	6,477	—	—	—	6,477
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	200	—	—	518	—	—	—	518
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	125	—	125
Netherlands	—	—	—	—	—	—	—	—	30	—	30
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	2,071	—	—	—	2,071
Russia	—	—	—	—	—	—	366	276	—	174	816
Spain	—	—	—	170	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	0	29	2,959	—	0	0	0	0	0
Total	126	439	1,138	2,085	2,959	—	34,609	565	1,154	484	36,812
Persian Gulf³	—	—	—	—	—	—	3,464	—	—	—	3,464

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-June 2019
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	864	—	—	—	3,262	3,262
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	150	150
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	24	—	—	—	—	—
Kuwait	—	—	—	101	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	20	—	—	—	—	—
Saudi Arabia	—	—	—	618	—	—	—	679	679
United Arab Emirates	—	—	—	—	—	—	—	20	20
Venezuela	—	—	—	101	—	—	—	2,413	2,413
Non-OPEC	101	128	—	27,581	2,463	2,868	3,709	16,720	23,297
Argentina	—	—	—	—	—	939	1,102	—	2,041
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	562	562
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	9	226	—	—	1	1
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	41	—	4,191	411	—	1,842	4,249	6,091
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	275	—	—	—	—	—
Colombia	101	—	—	—	—	100	40	2,604	2,744
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	237	197	—	—	4	4
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	10	—	16,791	934	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	6	82	749	20	3,726	4,495
Netherlands	—	77	—	—	—	—	—	925	925
Norway	—	—	—	—	—	—	—	244	244
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	484	—	—	—	—	—
Russia	—	—	—	—	—	742	99	3,317	4,158
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	286	286
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	0	0	—	5,588	613	338	606	802	1,746
Total	101	128	—	28,445	2,463	2,868	3,709	19,982	26,559
Persian Gulf³	—	—	—	1,227	—	—	—	699	699

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-June 2019
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	31	501	—	31,986	330,657	1,650	177	1,827
Algeria	—	—	—	—	—	—	—	14,103	20,516	35	78	113
Angola	—	—	—	—	—	—	—	651	6,970	35	4	39
Congo (Brazzaville)	—	—	—	—	—	—	—	173	4,813	26	1	27
Ecuador	—	—	—	—	—	—	—	339	29,676	162	2	164
Equatorial Guinea	—	—	—	—	—	—	—	—	2,118	12	—	12
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	24	63,604	351	0	351
Kuwait	—	—	—	—	—	—	—	101	11,974	66	1	66
Libya	—	—	—	—	—	—	—	916	11,367	58	5	63
Nigeria	—	—	—	—	—	—	—	1,532	30,110	158	8	166
Saudi Arabia	—	—	—	—	—	—	—	6,322	112,283	585	35	620
United Arab Emirates	—	—	—	—	—	501	—	3,635	3,635	—	20	20
Venezuela	—	—	—	—	31	—	—	4,190	33,591	162	23	186
Non-OPEC	2,456	627	936	1,179	6,487	7,189	6	374,458	1,351,571	5,398	2,069	7,467
Argentina	—	—	—	619	—	24	—	3,515	9,190	31	19	51
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	398	398	—	2	2
Bahamas	—	—	—	—	—	—	—	1,063	1,063	—	6	6
Bahrain	—	—	—	—	—	434	—	434	434	—	2	2
Belgium	—	—	—	—	—	47	—	14,159	14,159	—	78	78
Brazil	—	9	—	—	—	—	—	12,087	31,266	106	67	173
Brunei	—	—	—	—	—	—	—	—	2,934	16	—	16
Cameroon	—	—	—	—	—	—	—	793	2,132	7	4	12
Canada	491	488	283	296	5,485	1,368	6	113,223	801,795	3,804	626	4,430
Chad	—	—	—	—	—	—	—	—	1,425	8	—	8
China	—	—	378	—	—	—	—	1,078	1,078	—	6	6
Colombia	—	—	—	—	39	—	—	9,313	76,536	371	51	423
Denmark	—	—	—	—	—	—	—	408	4,250	21	2	23
Egypt	—	—	—	—	—	—	—	4,601	8,447	21	25	47
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	15	—	4,708	4,708	—	26	26
France	—	127	—	—	—	91	—	5,780	5,780	—	32	32
Germany	—	—	42	—	—	112	—	2,809	2,809	—	16	16
Guatemala	—	—	—	—	—	—	—	—	1,107	6	—	6
India	—	—	—	—	—	1	—	20,863	20,863	—	115	115
Indonesia	—	—	1	—	—	453	—	1,020	1,020	—	6	6
Italy	34	—	—	—	—	113	—	5,293	5,293	—	29	29
Korea, South	—	—	4	—	130	2,071	—	23,026	23,026	—	127	127
Latvia	—	—	—	—	—	—	—	69	69	—	0	0
Lithuania	—	—	—	—	—	—	—	337	337	—	2	2
Malaysia	—	—	56	—	65	1	—	411	411	—	2	2
Mexico	1,128	—	—	—	—	—	—	6,993	117,744	612	39	651
Netherlands	—	—	—	—	—	29	—	18,875	19,361	3	104	107
Norway	—	—	—	—	—	—	—	7,717	20,248	69	43	112
Oman	—	—	—	204	—	—	—	204	204	—	1	1
Portugal	—	—	—	—	—	—	—	5,953	5,953	—	33	33
Qatar	—	—	—	—	—	1,850	—	4,405	4,405	—	24	24
Russia	—	—	—	—	—	203	—	52,047	77,768	142	288	430
Spain	—	—	5	—	541	—	—	8,561	8,755	1	47	48
Sweden	—	—	—	18	—	5	—	2,610	2,610	—	14	14
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	350	7,736	41	2	43
United Kingdom	219	—	—	24	—	97	—	15,135	27,125	66	84	150
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	584	3	167	18	227	275	0	26,220	39,132	73	147	216
Total	2,456	627	936	1,179	6,518	7,690	6	406,444	1,682,228	7,049	2,246	9,294
Persian Gulf³	—	—	—	—	—	2,785	—	14,921	196,335	1,002	82	1,085

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, June 2019
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	7,361	—	—	—	—	—	—	—	492	492
Algeria	998	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	603	—	—	—	—	—	—	—	—	—
Nigeria	2,212	—	—	—	—	—	—	—	—	—
Saudi Arabia	3,548	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	492	492
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	17,784	836	238	1,488	—	910	910	5,087	12,755	17,842
Argentina	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	15	644	659
Brazil	—	—	—	—	—	—	—	—	1,504	1,504
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	299	—	—	—	—	—	—
Canada	6,343	836	238	313	—	319	319	2,754	1,282	4,036
Chad	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	494	—	—	—	—	—	—	—	255	255
Denmark	1,033	—	—	—	—	—	—	1	—	1
Egypt	778	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	107	601	708
France	—	—	—	—	—	292	292	276	85	361
Germany	—	—	—	—	—	—	—	1	10	11
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	2,069	2,069
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	88	—	88
Korea, South	—	—	—	—	—	—	—	—	26	26
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	99	1,559	1,658
Norway	4,527	—	—	—	—	—	—	242	824	1,066
Oman	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	817	817
Qatar	—	—	—	—	—	—	—	—	—	—
Russia	2,061	—	—	399	—	—	—	31	836	867
Spain	—	—	—	304	—	—	—	1	570	571
Sweden	—	—	—	39	—	—	—	35	40	75
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—
United Kingdom	1,047	—	—	—	—	299	299	1,429	795	2,224
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	1,501	0	0	134	—	0	0	8	838	846
Total	25,145	836	238	1,488	—	910	910	5,087	13,247	18,334
Persian Gulf³	3,548	—	—	—	—	—	—	—	492	492

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, June 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	103	-	-	1,853	42	340	-	2,235
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	11	-	-	1,158	42	340	-	1,540
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	695	-	-	-	695
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	92	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	0	0	-	0
Total	-	-	-	103	-	-	1,853	42	340	-	2,235
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, June 2019
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	13	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	6	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	7	—	—	—	—	—
Non-OPEC	—	1	—	2,042	—	—	511	1,280	1,791
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	1	—	1,203	—	—	324	198	522
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	40	310	350
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	839	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	20	25	45
Netherlands	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	99	723	822
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	—	0	—	—	28	24	52
Total	—	1	—	2,055	—	—	511	1,280	1,791
Persian Gulf³	—	—	—	6	—	—	—	—	—

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, June 2019
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	—	—	—	505	7,866	245	17	262
Algeria	—	—	—	—	—	—	—	—	998	33	—	33
Angola	—	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	6	6	—	0	0
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	603	20	—	20
Nigeria	—	—	—	—	—	—	—	—	2,212	74	—	74
Saudi Arabia	—	—	—	—	—	—	—	—	3,548	118	—	118
United Arab Emirates	—	—	—	—	—	—	—	492	492	—	16	16
Venezuela	—	—	—	—	—	—	—	7	7	—	0	0
Non-OPEC	4	—	43	1	782	141	—	28,457	46,241	593	949	1,541
Argentina	—	—	—	—	—	3	—	3	3	—	0	0
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	1	—	660	660	—	22	22
Brazil	—	—	—	—	—	—	—	1,504	1,504	—	50	50
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	299	299	—	10	10
Canada	—	—	36	1	710	108	—	9,874	16,217	211	329	541
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	5	—	—	—	—	5	5	—	0	0
Colombia	—	—	—	—	—	—	—	1,300	1,794	16	43	60
Denmark	—	—	—	—	—	—	—	1	1,034	34	0	34
Egypt	—	—	—	—	—	—	—	—	778	26	—	26
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	708	708	—	24	24
France	—	—	—	—	—	13	—	666	666	—	22	22
Germany	—	—	—	—	—	13	—	116	116	—	4	4
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	2,069	2,069	—	69	69
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	88	88	—	3	3
Korea, South	—	—	1	—	—	—	—	866	866	—	29	29
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	45	45	—	2	2
Netherlands	—	—	—	—	—	1	—	1,659	1,659	—	55	55
Norway	—	—	—	—	—	—	—	1,066	5,593	151	36	186
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	817	817	—	27	27
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	2,088	4,149	69	70	138
Spain	—	—	—	—	—	—	—	875	875	—	29	29
Sweden	—	—	—	—	—	2	—	116	116	—	4	4
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	4	—	—	—	—	—	—	2,527	3,574	35	84	119
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	—	1	0	72	0	—	1,105	2,606	51	37	87
Total	4	—	43	1	782	141	—	28,962	54,107	838	965	1,804
Persian Gulf³	—	—	—	—	—	—	—	498	4,046	118	17	135

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, June 2019
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	77,450	1,938	190	-	-	-	-	-	350	350
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	77,053	1,938	190	-	-	-	-	-	350	350
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	397	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	-	-	-	-	-	0	0
Total	77,450	1,938	190	-	-	-	-	-	350	350
Persian Gulf³	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, June 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	—	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	—	84	—	—	276	—	40	24	340
Argentina	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	84	—	—	276	—	40	24	340
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	—	0	—	—	0	—	0	0	0
Total	—	—	—	84	—	—	276	—	40	24	340
Persian Gulf³	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, June 2019
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	5	—	—	9	—	6	107	113
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	5	—	—	9	—	6	107	113
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	—	—	0	—	0	0	0
Total	—	5	—	—	9	—	6	107	113
Persian Gulf³	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, June 2019
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	83	85	3	24	228	124	—	3,576	81,026	2,582	119	2,701
Argentina	—	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	83	85	3	22	228	124	—	3,574	80,627	2,568	119	2,688
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	397	13	—	13
Netherlands	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	2	—	—	—	2	2	—	0	0
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	0	0	0	0	—	0	0	1	0	0
Total	83	85	3	24	228	124	—	3,576	81,026	2,582	119	2,701
Persian Gulf³	—	—	—	—	—	—	—	—	—	—	—	—

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, June 2019
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	13,881	-	-	2,439	-	-	-	-	-	-
Algeria	-	-	-	1,584	-	-	-	-	-	-
Angola	1,460	-	-	325	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	33	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	4,978	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	1,914	-	-	-	-	-	-	-	-	-
Saudi Arabia	5,529	-	-	497	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	47,455	-	85	12,491	-	-	-	-	1,591	1,591
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	1,688	-	-	-	-	-	-
Brazil	2,917	-	-	30	-	-	-	-	365	365
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	681	-	-	-	-	-	-	-	-	-
Canada	15,529	-	-	351	-	-	-	-	-	-
Chad	476	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	7,649	-	-	46	-	-	-	-	200	200
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	1,004	-	-	1,896	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	65	-	-	-	-	-	-	-
Germany	-	-	-	87	-	-	-	-	-	-
Guatemala	281	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	588	588
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	12	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	14,735	-	20	-	-	-	-	-	-	-
Netherlands	-	-	-	121	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	1,831	-	-	7,528	-	-	-	-	-	-
Spain	-	-	-	324	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	1,495	-	-	-	-	-	-	-	350	350
United Kingdom	789	-	-	197	-	-	-	-	88	88
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	68	-	0	211	-	-	-	-	0	0
Total	61,336	-	85	14,930	-	-	-	-	1,591	1,591
Persian Gulf³	10,507	-	-	497	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, June 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	—	—	—	—	—	—	—	—	—	156	156
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	156	156
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	129	—	—	—	—	—	—	—	174	174
Argentina	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	129	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	—	—	—	—	—	—	—
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	174	174
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	—	0	—	—	—	—	—	—	—	0	0
Total	—	129	—	—	—	—	—	—	—	330	330
Persian Gulf³	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, June 2019
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	569	-	-	505	505
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	129	129
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	472	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	376	376
Netherlands	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	97	-	-	0	0
Total	-	-	-	-	569	-	-	505	505
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, June 2019
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	—	—	—	2,595	16,476	463	87	549
Algeria	—	—	—	—	—	—	—	1,584	1,584	—	53	53
Angola	—	—	—	—	—	—	—	325	1,785	49	11	60
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	189	189	—	6	6
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	4,978	166	—	166
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	1,914	64	—	64
Saudi Arabia	—	—	—	—	—	—	—	497	6,026	184	17	201
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	283	—	19	132	—	1,062	—	17,040	64,495	1,582	568	2,150
Argentina	—	—	—	132	—	—	—	132	132	—	4	4
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	47	—	47	47	—	2	2
Belgium	—	—	—	—	—	20	—	1,708	1,708	—	57	57
Brazil	—	—	—	—	—	—	—	524	3,441	97	17	115
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	681	23	—	23
Canada	—	—	—	—	—	—	—	351	15,880	518	12	529
Chad	—	—	—	—	—	—	—	—	476	16	—	16
China	—	—	16	—	—	—	—	16	16	—	1	1
Colombia	—	—	—	—	—	—	—	375	8,024	255	13	267
Denmark	—	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	1,896	2,900	33	63	97
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	3	—	68	68	—	2	2
Germany	—	—	—	—	—	2	—	89	89	—	3	3
Guatemala	—	—	—	—	—	—	—	—	281	9	—	9
India	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	125	—	125	125	—	4	4
Italy	—	—	—	—	—	13	—	601	601	—	20	20
Korea, South	—	—	—	—	—	330	—	802	802	—	27	27
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	12	12	—	0	0
Malaysia	—	—	3	—	—	—	—	3	3	—	0	0
Mexico	231	—	—	—	—	—	—	627	15,362	491	21	512
Netherlands	—	—	—	—	—	—	—	121	121	—	4	4
Norway	—	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	520	—	520	520	—	17	17
Russia	—	—	—	—	—	—	—	7,702	9,533	61	257	318
Spain	—	—	—	—	—	—	—	324	324	—	11	11
Sweden	—	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	350	1,845	50	12	62
United Kingdom	29	—	—	—	—	1	—	315	1,104	26	11	37
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	23	—	0	0	—	1	—	332	400	3	10	13
Total	283	—	19	132	—	1,062	—	19,635	80,971	2,045	655	2,699
Persian Gulf³	—	—	—	—	—	567	—	1,064	11,571	350	35	386

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, June 2019
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven- tional	Total	Reform-ulated	Conven- tional	Total
	PAD District 4									
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	9,048	132	-	-	-	-	-	-	109	109
Canada	9,048	132	-	-	-	-	-	-	109	109
Qatar	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	-	-	-	-	-	0	0
Total	9,048	132	-	-	-	-	-	-	109	109
	PAD District 5									
OPEC	25,525	-	-	1,090	-	-	-	-	-	-
Algeria	-	-	-	1,090	-	-	-	-	-	-
Angola	1,903	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	4,433	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	5,675	-	-	-	-	-	-	-	-	-
Kuwait	770	-	-	-	-	-	-	-	-	-
Libya	1,046	-	-	-	-	-	-	-	-	-
Nigeria	3,418	-	-	-	-	-	-	-	-	-
Saudi Arabia	7,784	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	15,729	1,276	-	1,216	-	365	365	315	457	772
Argentina	299	55	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Brazil	985	-	-	-	-	-	-	-	-	-
Brunei	900	-	-	-	-	-	-	-	-	-
Canada	6,844	1,221	-	54	-	72	72	-	3	3
China	-	-	-	-	-	-	-	-	-	-
Colombia	2,025	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	72	-	-	-	-	259	259
Korea, South	-	-	-	-	-	293	293	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	1,223	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	315	-	315
Oman	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	298	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	3,453	0	-	792	-	0	0	0	195	195
Total	41,254	1,276	-	2,306	-	365	365	315	457	772
Persian Gulf ³	14,229	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, June 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
PAD District 4											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	21	-	-	96	-	-	-	96
Canada	-	-	-	21	-	-	96	-	-	-	96
Qatar	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	21	-	-	96	-	-	-	96
PAD District 5											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	574	102	600	-	509	-	1	-	510
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	574	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	16	-	-	509	-	1	-	510
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	57	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	29	600	-	0	-	0	-	0
Total	-	-	574	102	600	-	509	-	1	-	510
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, June 2019
(Thousand Barrels) — Continued

Country of Origin			Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
	Kerosene	Finished Aviation Gasoline							
	PAD District 4								
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
	PAD District 5								
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	7	-	3,172	-	-	233	177	410
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	7	-	12	-	-	233	-	233
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	-	-	569	-	-	-	-	-
Korea, South	-	-	-	2,152	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	97	97
Netherlands	-	-	-	-	-	-	-	80	80
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	439	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	0	-	0	-	-	0	0	0
Total	-	7	-	3,172	-	-	233	177	410
Persian Gulf ³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, June 2019
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
	PAD District 4											
OPEC	—	—	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	—	—	6	—	1	365	9,413	302	12	314
Canada	—	—	—	—	6	—	1	365	9,413	302	12	314
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	—	—	0	—	0	0	0	0	0	0
Total	—	—	—	—	6	—	1	365	9,413	302	12	314
	PAD District 5											
OPEC	—	—	—	—	—	—	—	1,090	26,615	851	36	887
Algeria	—	—	—	—	—	—	—	1,090	1,090	—	36	36
Angola	—	—	—	—	—	—	—	—	1,903	63	—	63
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	4,433	148	—	148
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	5,675	189	—	189
Kuwait	—	—	—	—	—	—	—	—	770	26	—	26
Libya	—	—	—	—	—	—	—	—	1,046	35	—	35
Nigeria	—	—	—	—	—	—	—	—	3,418	114	—	114
Saudi Arabia	—	—	—	—	—	—	—	—	7,784	259	—	259
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	70	—	94	32	83	11	—	9,294	25,023	524	310	834
Argentina	—	—	—	—	—	—	—	55	354	10	2	12
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	574	1,559	33	19	52
Brunei	—	—	—	—	—	—	—	—	900	30	—	30
Canada	—	—	—	32	83	11	—	2,254	9,098	228	75	303
China	—	—	69	—	—	—	—	69	69	—	2	2
Colombia	—	—	—	—	—	—	—	—	2,025	68	—	68
Finland	—	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Japan	—	—	25	—	—	—	—	925	925	—	31	31
Korea, South	—	—	—	—	—	—	—	2,502	2,502	—	83	83
Malaysia	—	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	97	1,320	41	3	44
Netherlands	—	—	—	—	—	—	—	395	395	—	13	13
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Papua New Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Singapore	—	—	—	—	—	—	—	1,337	1,337	—	45	45
Sweden	—	—	—	—	—	—	—	—	—	—	—	—
Taiwan	70	—	—	—	—	—	—	70	70	—	2	2
United Kingdom	—	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	—	0	0	0	0	—	1,016	4,469	114	35	149
Total	70	—	94	32	83	11	—	10,384	51,638	1,375	346	1,721
Persian Gulf ³	—	—	—	—	—	—	—	—	14,229	474	—	474

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-June 2019
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	51,478	—	—	1,606	—	81	81	—	4,888	4,888
Algeria	6,413	—	—	1,201	—	—	—	—	—	—
Angola	572	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	4,640	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	3,574	—	—	—	—	—	—	—	—	—
Nigeria	17,408	—	—	360	—	—	—	840	—	840
Saudi Arabia	18,871	—	—	—	—	81	81	2,250	—	2,250
United Arab Emirates	—	—	—	—	—	—	—	492	—	492
Venezuela	—	—	—	45	—	—	—	1,306	—	1,306
Non-OPEC	90,600	8,651	1,439	8,523	—	9,718	9,718	27,871	69,061	96,932
Argentina	—	—	—	—	—	—	—	—	52	52
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	166	166	192	2,456	2,648
Brazil	546	—	—	288	—	—	—	—	8,141	8,141
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	503	—	—	—	—	—	—
Canada	41,602	8,076	1,439	1,894	—	2,368	2,368	15,664	8,578	24,242
Chad	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	4,329	—	—	—	—	—	—	—	1,395	1,395
Denmark	3,842	—	—	—	—	—	—	9	329	338
Egypt	2,221	—	—	—	—	138	138	—	85	85
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	107	3,883	3,990
France	—	—	—	128	—	3,431	3,431	276	526	802
Germany	—	—	—	222	—	7	7	3	17	20
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	164	—	—	—	—	9,815	9,815
Indonesia	—	—	—	—	—	—	—	—	566	566
Italy	—	—	—	68	—	150	150	88	2,370	2,458
Korea, South	—	—	—	—	—	—	—	—	119	119
Latvia	—	—	—	—	—	—	—	—	69	69
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	75	75
Netherlands	—	—	—	292	—	1,071	1,071	3,897	7,741	11,638
Norway	12,531	192	—	—	—	198	198	249	2,773	3,022
Oman	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	558	4,479	5,037
Qatar	—	—	—	—	—	—	—	—	—	—
Russia	11,140	—	—	2,861	—	300	300	31	5,239	5,270
Spain	194	—	—	1,366	—	—	—	1	4,798	4,799
Sweden	—	191	—	39	—	158	158	35	153	188
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—
United Kingdom	6,571	—	—	—	—	1,731	1,731	6,753	2,590	9,343
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	7,624	192	0	698	—	0	0	8	2,812	2,820
Total	142,078	8,651	1,439	10,129	—	9,799	9,799	27,871	73,949	101,820
Persian Gulf³	18,871	—	—	—	—	81	81	—	2,742	2,742

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-June 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	—	—	—	—	—	—	1,706	—	—	—	1,706
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	312	—	—	—	312
Saudi Arabia	—	—	—	—	—	—	1,193	—	—	—	1,193
United Arab Emirates	—	—	—	—	—	—	200	—	—	—	200
Venezuela	—	—	—	—	—	—	1	—	—	—	1
Non-OPEC	—	—	—	1,084	—	—	28,310	565	585	—	29,460
Argentina	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	501	—	—	—	501
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	143	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	133	—	—	14,858	289	585	—	15,732
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	279	—	—	—	279
Colombia	—	—	—	—	—	—	3,758	—	—	—	3,758
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	121	—	—	—	—	—	—	—
Germany	—	—	—	630	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	6,477	—	—	—	6,477
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	2,071	—	—	—	2,071
Russia	—	—	—	—	—	—	366	276	—	—	642
Spain	—	—	—	57	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	—	0	—	—	0	0	0	—	0
Total	—	—	—	1,084	—	—	30,016	565	585	—	31,166
Persian Gulf³	—	—	—	—	—	—	3,464	—	—	—	3,464

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-June 2019
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	846	—	—	—	1,912	1,912
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	6	—	—	—	—	—
Kuwait	—	—	—	101	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	20	—	—	—	—	—
Saudi Arabia	—	—	—	618	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	20	20
Venezuela	—	—	—	101	—	—	—	1,892	1,892
Non-OPEC	101	25	—	9,404	2	939	1,623	8,872	11,434
Argentina	—	—	—	—	—	939	1,102	—	2,041
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	562	562
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	9	—	—	—	1	1
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	7	—	4,161	2	—	334	3,209	3,543
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	275	—	—	—	—	—
Colombia	101	—	—	—	—	—	40	2,131	2,171
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	237	—	—	—	4	4
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	4,238	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	20	162	182
Netherlands	—	18	—	—	—	—	—	610	610
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	484	—	—	—	—	—
Russia	—	—	—	—	—	—	99	1,803	1,902
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	286	286
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	0	0	28	104	132
Total	101	25	—	10,250	2	939	1,623	10,784	13,346
Persian Gulf³	—	—	—	1,209	—	—	—	20	20

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-June 2019
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	31	87	—	11,157	62,635	284	62	346
Algeria	—	—	—	—	—	—	—	1,201	7,614	35	7	42
Angola	—	—	—	—	—	—	—	—	572	3	—	3
Congo (Brazzaville)	—	—	—	—	—	—	—	—	4,640	26	—	26
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	6	6	—	0	0
Kuwait	—	—	—	—	—	—	—	101	101	—	1	1
Libya	—	—	—	—	—	—	—	—	3,574	20	—	20
Nigeria	—	—	—	—	—	—	—	1,532	18,940	96	8	105
Saudi Arabia	—	—	—	—	—	—	—	4,142	23,013	104	23	127
United Arab Emirates	—	—	—	—	—	87	—	799	799	—	4	4
Venezuela	—	—	—	—	31	—	—	3,376	3,376	—	19	19
Non-OPEC	7	11	428	21	4,215	912	—	182,367	272,967	501	1,008	1,508
Argentina	—	—	—	—	—	14	—	2,107	2,107	—	12	12
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	1,063	1,063	—	6	6
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	22	—	2,979	2,979	—	16	16
Brazil	—	—	—	—	—	—	—	8,439	8,985	3	47	50
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	503	503	—	3	3
Canada	—	11	249	4	3,408	629	—	65,898	107,500	230	364	594
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	70	—	—	—	—	624	624	—	3	3
Colombia	—	—	—	—	39	—	—	7,464	11,793	24	41	65
Denmark	—	—	—	—	—	—	—	338	4,180	21	2	23
Egypt	—	—	—	—	—	—	—	223	2,444	12	1	14
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	3,990	3,990	—	22	22
France	—	—	—	—	—	47	—	4,529	4,529	—	25	25
Germany	—	—	42	—	—	77	—	998	998	—	6	6
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	1	—	16,698	16,698	—	92	92
Indonesia	—	—	1	—	—	—	—	567	567	—	3	3
Italy	—	—	—	—	—	6	—	2,682	2,682	—	15	15
Korea, South	—	—	4	—	—	87	—	4,448	4,448	—	25	25
Latvia	—	—	—	—	—	—	—	69	69	—	0	0
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	1	—	1	1	—	0	0
Mexico	—	—	—	—	—	—	—	257	257	—	1	1
Netherlands	—	—	—	—	—	3	—	13,632	13,632	—	75	75
Norway	—	—	—	—	—	—	—	3,412	15,943	69	19	88
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	5,037	5,037	—	28	28
Qatar	—	—	—	—	—	—	—	2,555	2,555	—	14	14
Russia	—	—	—	—	—	18	—	10,993	22,133	62	61	122
Spain	—	—	4	—	541	—	—	6,767	6,961	1	37	38
Sweden	—	—	—	2	—	5	—	869	869	—	5	5
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	7	—	—	8	—	—	—	11,281	17,852	36	62	99
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	58	7	227	2	—	3,944	11,568	43	23	64
Total	7	11	428	21	4,246	999	—	193,524	335,602	785	1,069	1,854
Persian Gulf³	—	—	—	—	—	87	—	7,603	26,474	104	42	146

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-June 2019
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	461,210	15,298	1,688	255	-	1	1	-	2,091	2,091
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	475	-	-	-	-	-	-	-	-	-
Brunei	417	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	458,463	15,298	1,688	255	-	1	1	-	2,091	2,091
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	1,855	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	-	0	0	-	0	0
Total	461,210	15,298	1,688	255	-	1	1	-	2,091	2,091
Persian Gulf³	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-June 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	528	-	-	1,195	-	302	154	1,651
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	528	-	-	1,195	-	302	154	1,651
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	0	0	0
Total	-	-	-	528	-	-	1,195	-	302	154	1,651
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-June 2019
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	18	—	—	36	—	143	278	421
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	18	—	—	36	—	143	278	421
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	—	—	0	—	0	0	0
Total	—	18	—	—	36	—	143	278	421
Persian Gulf³	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-June 2019
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	491	477	34	166	1,313	694	—	25,162	486,372	2,548	139	2,687
Argentina	—	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	475	3	—	3
Brunei	—	—	—	—	—	—	—	—	417	2	—	2
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	491	477	34	150	1,313	690	—	25,142	483,605	2,533	139	2,672
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	1,855	10	—	10
Netherlands	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	4	—	4	4	—	0	0
Russia	—	—	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	16	—	—	—	16	16	—	0	0
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	0	0	0	0	—	0	0	0	0	0
Total	491	477	34	166	1,313	694	—	25,162	486,372	2,548	139	2,687
Persian Gulf³	—	—	—	—	—	4	—	4	4	—	0	0

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-June 2019
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	118,266	—	—	14,806	—	—	—	—	—	—
Algeria	—	—	—	9,198	—	—	—	—	—	—
Angola	1,939	—	—	651	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	173	—	—	—	—	—	—
Ecuador	2,599	—	—	33	—	—	—	—	—	—
Equatorial Guinea	663	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	42,469	—	—	—	—	—	—	—	—	—
Kuwait	5,610	—	—	—	—	—	—	—	—	—
Libya	—	—	—	916	—	—	—	—	—	—
Nigeria	4,911	—	—	—	—	—	—	—	—	—
Saudi Arabia	31,171	—	—	1,501	—	—	—	—	—	—
United Arab Emirates	—	—	—	2,334	—	—	—	—	—	—
Venezuela	28,904	—	—	—	—	—	—	—	—	—
Non-OPEC	274,021	—	576	64,971	—	512	512	325	13,338	13,663
Argentina	589	—	—	—	—	—	—	—	399	399
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	9,711	—	—	—	—	311	311
Brazil	11,734	—	—	783	—	—	—	—	969	969
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	1,339	—	—	290	—	—	—	—	—	—
Canada	90,787	—	—	958	—	—	—	—	9	9
Chad	1,425	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	74	74
Colombia	45,340	—	—	46	—	—	—	—	200	200
Denmark	—	—	—	—	—	—	—	—	70	70
Egypt	1,625	—	—	4,378	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	227	227	—	312	312
France	—	—	65	310	—	—	—	—	111	111
Germany	—	—	—	966	—	1	1	—	375	375
Guatemala	1,107	—	—	—	—	—	—	—	—	—
India	—	—	—	466	—	—	—	—	3,213	3,213
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	680	—	—	—	—	1,212	1,212
Korea, South	—	—	—	—	—	—	—	—	303	303
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	12	—	—	—	—	325	325
Malaysia	—	—	—	—	—	—	—	—	—	—
Mexico	101,987	—	87	—	—	—	—	—	995	995
Netherlands	486	—	—	2,033	—	—	—	—	547	547
Norway	—	—	—	3,188	—	—	—	—	322	322
Oman	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	916	916
Qatar	—	—	—	—	—	—	—	—	—	—
Russia	6,738	—	—	35,152	—	—	—	—	317	317
Spain	—	—	—	849	—	—	—	—	294	294
Sweden	—	—	—	663	—	—	—	—	325	325
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	5,309	—	—	—	—	—	—	—	350	350
United Kingdom	5,419	—	—	797	—	284	284	325	345	670
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	136	—	424	3,689	—	0	0	0	1,044	1,044
Total	392,287	—	576	79,777	—	512	512	325	13,338	13,663
Persian Gulf³	79,250	—	—	3,835	—	—	—	—	—	—

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-June 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	—	—	—	—	—	—	293	—	—	156	449
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	156	156
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	293	—	—	—	293
Non-OPEC	126	439	—	113	—	—	223	—	261	174	658
Argentina	126	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	439	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	—	—	223	—	—	—	223
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	106	—	106
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	125	—	125
Netherlands	—	—	—	—	—	—	—	—	30	—	30
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	174	174
Spain	—	—	—	113	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	—	—	0	—	0	0	0
Total	126	439	—	113	—	—	516	—	261	330	1,107
Persian Gulf³	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-June 2019
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	18	—	—	—	1,200	1,200
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	18	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	679	679
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	521	521
Non-OPEC	—	59	—	12	2,425	1,591	578	5,088	7,257
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	226	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	—	—	6	373	—	—	294	294
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	100	—	473	573
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	197	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	934	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	6	82	749	—	2,328	3,077
Netherlands	—	59	—	—	—	—	—	235	235
Norway	—	—	—	—	—	—	—	244	244
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	742	—	1,514	2,256
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	—	0	613	0	578	0	578
Total	—	59	—	30	2,425	1,591	578	6,288	8,457
Persian Gulf³	—	—	—	18	—	—	—	679	679

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-June 2019
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	—	414	—	16,887	135,153	653	93	747
Algeria	—	—	—	—	—	—	—	9,198	9,198	—	51	51
Angola	—	—	—	—	—	—	—	651	2,590	11	4	14
Congo (Brazzaville)	—	—	—	—	—	—	—	173	173	—	1	1
Ecuador	—	—	—	—	—	—	—	189	2,788	14	1	15
Equatorial Guinea	—	—	—	—	—	—	—	—	663	4	—	4
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	18	42,487	235	0	235
Kuwait	—	—	—	—	—	—	—	—	5,610	31	—	31
Libya	—	—	—	—	—	—	—	916	916	—	5	5
Nigeria	—	—	—	—	—	—	—	—	4,911	27	—	27
Saudi Arabia	—	—	—	—	—	—	—	2,180	33,351	172	12	184
United Arab Emirates	—	—	—	—	—	414	—	2,748	2,748	—	15	15
Venezuela	—	—	—	—	—	—	—	814	29,718	160	4	164
Non-OPEC	1,745	139	165	850	—	5,086	—	98,823	372,844	1,514	546	2,060
Argentina	—	—	—	619	—	10	—	1,154	1,743	3	6	10
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	434	—	434	434	—	2	2
Belgium	—	—	—	—	—	25	—	10,047	10,047	—	56	56
Brazil	—	9	—	—	—	—	—	2,426	14,160	65	13	78
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	290	1,629	7	2	9
Canada	—	—	—	—	—	—	—	1,863	92,650	502	10	512
Chad	—	—	—	—	—	—	—	—	1,425	8	—	8
China	—	—	48	—	—	—	—	122	122	—	1	1
Colombia	—	—	—	—	—	—	—	819	46,159	250	5	255
Denmark	—	—	—	—	—	—	—	70	70	—	0	0
Egypt	—	—	—	—	—	—	—	4,378	6,003	9	24	33
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	15	—	554	554	—	3	3
France	—	127	—	—	—	44	—	657	657	—	4	4
Germany	—	—	—	—	—	35	—	1,483	1,483	—	8	8
Guatemala	—	—	—	—	—	—	—	—	1,107	6	—	6
India	—	—	—	—	—	—	—	3,876	3,876	—	21	21
Indonesia	—	—	—	—	—	453	—	453	453	—	3	3
Italy	34	—	—	—	—	107	—	2,035	2,035	—	11	11
Korea, South	—	—	—	—	—	1,938	—	3,175	3,175	—	18	18
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	337	337	—	2	2
Malaysia	—	—	54	—	—	—	—	54	54	—	0	0
Mexico	1,128	—	—	—	—	—	—	5,500	107,487	563	30	594
Netherlands	—	—	—	—	—	26	—	2,942	3,428	3	16	19
Norway	—	—	—	—	—	—	—	3,754	3,754	—	21	21
Oman	—	—	—	204	—	—	—	204	204	—	1	1
Portugal	—	—	—	—	—	—	—	916	916	—	5	5
Qatar	—	—	—	—	—	1,846	—	1,846	1,846	—	10	10
Russia	—	—	—	—	—	—	—	37,899	44,637	37	209	247
Spain	—	—	1	—	—	—	—	1,257	1,257	—	7	7
Sweden	—	—	—	—	—	—	—	988	988	—	5	5
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	350	5,659	29	2	31
United Kingdom	212	—	—	16	—	97	—	2,076	7,495	30	11	41
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	371	3	62	11	—	56	—	6,864	7,000	2	40	39
Total	1,745	139	165	850	—	5,500	—	115,710	507,997	2,167	639	2,807
Persian Gulf³	—	—	—	—	—	2,694	—	7,226	86,476	438	40	478

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-June 2019
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven- tional	Total	Reform-ulated	Conven- tional	Total
	PAD District 4									
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	53,513	2,223	-	-	-	-	-	-	755	755
Canada	53,513	2,223	-	-	-	-	-	-	755	755
Qatar	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	-	-	-	-	-	0	0
Total	53,513	2,223	-	-	-	-	-	-	755	755
	PAD District 5									
OPEC	128,927	-	-	3,792	-	-	-	-	-	-
Algeria	-	-	-	3,704	-	-	-	-	-	-
Angola	3,808	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	26,738	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	21,111	-	-	-	-	-	-	-	-	-
Kuwait	6,263	-	-	-	-	-	-	-	-	-
Libya	6,877	-	-	-	-	-	-	-	-	-
Nigeria	6,259	-	-	-	-	-	-	-	-	-
Saudi Arabia	55,919	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	88	-	-	-	-	-	-
Venezuela	497	-	-	-	-	-	-	-	-	-
Non-OPEC	97,769	9,966	-	9,839	-	2,697	2,697	2,255	8,524	10,779
Argentina	5,086	254	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	398	-	-	-	-	-	-
Brazil	6,424	-	-	84	-	-	-	-	-	-
Brunei	2,517	-	-	-	-	-	-	-	-	-
Canada	44,207	9,484	-	1,289	-	517	517	-	717	717
China	-	-	-	-	-	-	-	-	72	72
Colombia	17,554	-	-	430	-	-	-	-	600	600
Finland	-	-	-	-	-	-	-	-	164	164
Germany	-	-	-	-	-	-	-	-	328	328
Indonesia	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	885	-	610	610	-	1,772	1,772
Korea, South	-	-	-	-	-	1,264	1,264	-	682	682
Malaysia	-	-	-	289	-	-	-	-	-	-
Mexico	6,909	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	148	148	1,942	131	2,073
Oman	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	189	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	298	-	-	-	-	275	275
Sweden	-	-	-	737	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	327	327
United Kingdom	-	-	-	349	-	71	71	-	1,358	1,358
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	15,072	228	-	4,891	-	87	87	313	2,098	2,411
Total	226,696	9,966	-	13,631	-	2,697	2,697	2,255	8,524	10,779
Persian Gulf ³	83,293	-	-	88	-	-	-	-	-	-

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-June 2019
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
PAD District 4											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	84	-	-	604	-	-	-	604
Canada	-	-	-	84	-	-	604	-	-	-	604
Qatar	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	84	-	-	604	-	-	-	604
PAD District 5											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	1,138	276	2,959	-	2,278	-	6	-	2,284
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	1,138	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	47	-	-	1,760	-	6	-	1,766
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	200	-	-	518	-	-	-	518
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	29	2,959	-	0	-	0	-	0
Total	-	-	1,138	276	2,959	-	2,278	-	6	-	2,284
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-June 2019
(Thousand Barrels) — Continued

Country of Origin			Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
	Kerosene	Finished Aviation Gasoline							
	PAD District 4								
OPEC	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	2	—	—	—	—	—	97	97
Canada	—	2	—	—	—	—	—	97	97
Qatar	—	—	—	—	—	—	—	—	—
Other	—	0	—	—	—	—	—	0	0
Total	—	2	—	—	—	—	—	97	97
	PAD District 5								
OPEC	—	—	—	—	—	—	—	150	150
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	150	150
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	24	—	18,165	—	338	1,365	2,385	4,088
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Canada	—	14	—	24	—	—	1,365	371	1,736
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Japan	—	—	—	2,689	—	—	—	—	—
Korea, South	—	10	—	12,553	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	1,236	1,236
Netherlands	—	—	—	—	—	—	—	80	80
Oman	—	—	—	—	—	—	—	—	—
Papua New Guinea	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	—	505	505
Qatar	—	—	—	—	—	—	—	—	—
Singapore	—	—	—	834	—	338	—	—	338
Sweden	—	—	—	—	—	—	—	—	—
Taiwan	—	—	—	190	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Other	—	0	—	1,875	—	0	0	193	193
Total	—	24	—	18,165	—	338	1,365	2,535	4,238
Persian Gulf ³	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-June 2019
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks								Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
	PAD District 4											
OPEC	-	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	190	1	6	3,962	57,475	296	22	318
Canada	-	-	-	-	190	1	6	3,962	57,475	296	22	318
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	0	0	0	0	0	0	0	0
Total	-	-	-	-	190	1	6	3,962	57,475	296	22	318
	PAD District 5											
OPEC	-	-	-	-	-	-	-	3,942	132,869	712	22	734
Algeria	-	-	-	-	-	-	-	3,704	3,704	-	20	20
Angola	-	-	-	-	-	-	-	-	3,808	21	-	21
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	150	26,888	148	1	149
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	21,111	117	-	117
Kuwait	-	-	-	-	-	-	-	-	6,263	35	-	35
Libya	-	-	-	-	-	-	-	-	6,877	38	-	38
Nigeria	-	-	-	-	-	-	-	-	6,259	35	-	35
Saudi Arabia	-	-	-	-	-	-	-	-	55,919	309	-	309
United Arab Emirates	-	-	-	-	-	-	-	88	88	-	0	0
Venezuela	-	-	-	-	-	-	-	-	497	3	-	3
Non-OPEC	213	-	309	142	769	496	-	64,144	161,913	540	354	895
Argentina	-	-	-	-	-	-	-	254	5,340	28	1	30
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	398	398	-	2	2
Brazil	-	-	-	-	-	-	-	1,222	7,646	35	7	42
Brunei	-	-	-	-	-	-	-	-	2,517	14	-	14
Canada	-	-	-	142	574	48	-	16,358	60,565	244	90	335
China	-	-	260	-	-	-	-	332	332	-	2	2
Colombia	-	-	-	-	-	-	-	1,030	18,584	97	6	103
Finland	-	-	-	-	-	-	-	164	164	-	1	1
Germany	-	-	-	-	-	-	-	328	328	-	2	2
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	47	-	-	-	-	6,003	6,003	-	33	33
Korea, South	-	-	-	-	130	46	-	15,403	15,403	-	85	85
Malaysia	-	-	2	-	65	-	-	356	356	-	2	2
Mexico	-	-	-	-	-	-	-	1,236	8,145	38	7	45
Netherlands	-	-	-	-	-	-	-	2,301	2,301	-	13	13
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	694	694	-	4	4
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	4,704	4,704	-	26	26
Sweden	-	-	-	-	-	-	-	737	737	-	4	4
Taiwan	213	-	-	-	-	-	-	730	730	-	4	4
United Kingdom	-	-	-	-	-	-	-	1,778	1,778	-	10	10
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	-	0	0	0	402	-	10,116	25,188	84	55	138
Total	213	-	309	142	769	496	-	68,086	294,782	1,252	376	1,629
Persian Gulf ³	-	-	-	-	-	-	-	88	83,381	460	0	461

- = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 49. Exports of Crude Oil and Petroleum Products by PAD District, June 2019
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	1	3,979	89,700	—	1,096	94,776	3,159
Hydrocarbon Gas Liquids	8,162	6,205	40,239	81	1,331	56,017	1,867
Natural Gas Liquids	8,162	6,205	40,239	81	1,331	56,017	1,867
Ethane	1,838	2,591	3,817	—	1	8,247	275
Propane	4,559	86	29,711	1	781	35,139	1,171
Normal Butane	1,716	85	6,496	6	493	8,796	293
Isobutane	1	0	192	—	1	194	6
Natural Gasoline	48	3,442	22	73	56	3,642	121
Refinery Olefins	—	—	—	—	—	—	—
Ethylene	—	—	—	—	—	—	—
Propylene	—	—	—	—	—	—	—
Normal Butylene	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—
Other Liquids	78	2,752	11,673	5	514	15,023	501
Hydrogen/Oxygenates/Renewables/	—	—	—	—	—	—	—
Other Hydrocarbons	51	873	4,538	1	258	5,721	191
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	1	1	2,360	—	1	2,362	79
Methyl Tertiary Butyl Ether (MTBE)	0	—	1,376	—	0	1,377	46
Other Oxygenates	1	1	983	—	1	985	33
Renewable Fuels (including Fuel Ethanol) ...	51	872	2,178	1	257	3,359	112
Fuel Ethanol	50	669	2,173	—	167	3,059	102
Biodiesel	1	203	5	1	91	300	10
Other Renewable Diesel	—	—	—	—	—	—	—
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—
Unfinished Oils	24	1,699	4,849	4	59	6,636	221
Naphthas and Lighter	12	1,694	4,752	0	53	6,511	217
Kerosene and Light Gas Oils	12	6	97	4	6	125	4
Heavy Gas Oils	—	—	—	—	—	—	—
Residuum	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC)	3	180	2,286	0	197	2,666	89
Reformulated	1	—	29	—	1	31	1
Conventional	2	180	2,257	0	196	2,636	88
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	4,326	1,390	80,986	21	9,430	96,153	3,205
Finished Motor Gasoline	1,029	126	19,199	1	781	21,135	705
Reformulated	—	—	—	—	—	—	—
Conventional	1,029	126	19,199	1	781	21,135	705
Finished Aviation Gasoline	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel	595	38	5,225	—	653	6,511	217
Kerosene	101	1	63	—	0	165	5
Distillate Fuel Oil	1,917	263	39,488	0	3,387	45,055	1,502
15 ppm sulfur and under	1,529	0	32,542	0	2,008	36,080	1,203
Greater than 15 ppm to 500 ppm sulfur	—	92	2,902	—	374	3,368	112
Greater than 500 ppm sulfur	388	170	4,044	—	1,005	5,607	187
Residual Fuel Oil	314	217	4,598	9	470	5,608	187
Naphtha for Petro. Feed. Use	—	—	—	—	—	—	—
Other Oils for Petro. Feed. Use	—	—	—	—	—	—	—
Special Naphthas	—	—	—	—	—	—	—
Lubricants	220	173	2,145	7	365	2,910	97
Waxes	49	27	20	0	7	103	3
Petroleum Coke	13	422	9,572	—	3,727	13,733	458
Asphalt and Road Oil	75	122	611	3	41	851	28
Miscellaneous Products	13	2	65	1	0	81	3
Total	12,567	14,326	222,598	106	12,371	261,968	8,732

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 50. Year-to-Date Exports of Crude Oil and Petroleum Products by PAD District, January-June 2019
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	743	28,305	484,757	—	2,901	516,706	2,855
Hydrocarbon Gas Liquids	32,178	42,678	224,942	1,546	8,292	309,637	1,711
Natural Gas Liquids	32,178	42,678	224,942	1,546	8,292	309,637	1,711
Ethane	4,497	15,560	28,699	—	3	48,759	269
Propane	20,228	556	161,129	3	5,173	186,173	1,029
Normal Butane	6,538	1,256	35,172	15	3,035	45,762	253
Isobutane	6	5	838	—	5	849	5
Natural Gasoline	945	25,312	187	1,528	122	28,094	155
Refinery Olefins	—	—	—	—	—	—	—
Ethylene	—	—	—	—	—	—	—
Propylene	—	—	—	—	—	—	—
Normal Butylene	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—
Other Liquids	1,201	14,587	72,918	21	2,788	91,514	506
Hydrogen/Oxygenates/Renewables/							
Other Hydrocarbons	928	3,887	24,542	2	1,545	30,904	171
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	6	9	11,282	0	3	11,300	62
Methyl Tertiary Butyl Ether (MTBE)	0	0	6,493	—	0	6,494	36
Other Oxygenates	6	9	4,789	0	3	4,807	27
Renewable Fuels (including Fuel Ethanol) ...	922	3,878	13,260	2	1,542	19,603	108
Fuel Ethanol	832	3,092	13,002	—	1,183	18,110	100
Biodiesel	90	785	258	2	359	1,494	8
Other Renewable Diesel	—	—	—	—	—	—	—
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—
Unfinished Oils	145	9,635	31,598	19	429	41,826	231
Naphthas and Lighter	69	9,590	30,728	1	394	40,782	225
Kerosene and Light Gas Oils	76	46	870	17	36	1,044	6
Heavy Gas Oils	—	—	—	—	—	—	—
Residuum	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC)	128	1,064	16,777	0	814	18,784	104
Reformulated	7	—	84	—	8	99	1
Conventional	120	1,064	16,694	0	806	18,685	103
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	25,852	6,746	493,618	106	63,016	589,337	3,256
Finished Motor Gasoline	2,523	837	134,611	7	6,269	144,246	797
Reformulated	—	—	—	—	—	—	—
Conventional	2,523	837	134,611	7	6,269	144,246	797
Finished Aviation Gasoline	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel	3,293	308	29,284	—	4,192	37,077	205
Kerosene	280	4	269	—	10	563	3
Distillate Fuel Oil	8,477	1,226	203,323	0	23,221	236,247	1,305
15 ppm sulfur and under	5,774	3	165,408	0	15,901	187,087	1,034
Greater than 15 ppm to 500 ppm sulfur	2,179	600	17,351	—	3,402	23,532	130
Greater than 500 ppm sulfur	525	622	20,564	—	3,918	25,629	142
Residual Fuel Oil	6,457	943	33,585	43	5,754	46,783	258
Naphtha for Petro. Feed. Use	—	—	—	—	—	—	—
Other Oils for Petro. Feed. Use	—	—	—	—	—	—	—
Special Naphthas	—	—	—	—	—	—	—
Lubricants	1,258	1,093	16,160	43	1,757	20,312	112
Waxes	344	192	153	1	32	722	4
Petroleum Coke	2,661	1,512	72,709	1	21,389	98,272	543
Asphalt and Road Oil	480	614	3,311	8	389	4,802	27
Miscellaneous Products	79	17	214	3	2	314	2
Total	59,974	92,316	1,276,235	1,673	76,997	1,507,195	8,327

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, June 2019
(Thousand Barrels)

Destination	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven-tional	Total	Reform-ulated	Conven-tional	Total
Argentina	—	—	—	13	—	15	15	—	—	—
Australia	1,000	587	—	1	—	520	520	—	—	—
Bahamas	—	22	—	—	—	37	37	—	0	0
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	1	—	11	—	—	—	—	0	0
Belize	—	—	—	—	—	—	—	—	0	0
Brazil	3,147	2,388	—	1,636	—	1,418	1,418	—	138	138
Canada	9,329	6,395	—	1,743	—	1,200	1,200	—	923	923
Cayman Islands	—	—	—	—	—	17	17	0	—	0
Chile	—	1,592	—	7	—	101	101	—	—	—
China	8,749	262	—	2	—	1	1	—	—	—
Colombia	1,252	46	—	1,505	—	1,295	1,295	—	160	160
Costa Rica	—	74	—	297	—	87	87	—	—	—
Denmark	574	—	—	—	—	—	—	—	—	—
Dominican Republic	467	538	—	—	—	360	360	—	0	0
Ecuador	—	1,596	—	8	—	1,099	1,099	—	265	265
Egypt	—	—	—	—	—	—	—	—	—	—
El Salvador	—	231	—	—	—	419	419	0	—	0
Finland	—	—	—	—	—	—	—	—	—	—
France	1,968	161	—	12	—	1	1	—	—	—
Germany	1,312	0	—	4	—	—	—	—	—	—
Ghana	—	—	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	—	—	—	—
Greece	1,071	—	—	—	—	—	—	—	—	—
Guatemala	—	419	—	0	—	1,301	1,301	—	116	116
Honduras	—	638	—	—	—	321	321	—	0	0
Hong Kong	—	551	—	0	—	—	—	—	—	—
India	8,713	2,382	—	9	—	—	—	—	—	—
Indonesia	—	2,717	—	0	—	—	—	—	—	—
Ireland	1,789	—	—	—	—	—	—	—	—	—
Israel	—	0	—	0	—	—	—	—	—	—
Italy	4,624	—	—	—	—	153	153	—	—	—
Jamaica	335	29	—	—	—	494	494	—	0	0
Japan	1,196	11,820	—	326	—	0	0	0	—	0
Korea, South	18,151	4,432	—	16	—	36	36	—	4	4
Lebanon	—	—	—	0	—	—	—	—	—	—
Mexico	—	3,590	—	378	—	9,876	9,876	29	1,028	1,057
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	1,402	—	0	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	8,226	3,092	—	340	—	205	205	0	—	0
New Zealand	—	—	—	0	—	—	—	—	—	—
Nicaragua	400	—	—	—	—	99	99	—	—	—
Nigeria	—	43	—	7	—	156	156	—	—	—
Norway	1,140	883	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—	—	—
Panama	1,899	0	—	—	—	550	550	—	—	—
Peru	390	240	—	2	—	328	328	—	0	0
Philippines	—	—	—	1	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—
Puerto Rico	—	9	—	1	—	2	2	—	—	—
Romania	—	—	—	0	—	—	—	—	—	—
Saudi Arabia	—	0	—	1	—	—	—	—	—	—
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—	—	—
Singapore	2,412	—	—	15	—	—	—	—	—	—
South Africa	—	242	—	—	—	—	—	—	—	—
Spain	1,847	1,958	—	—	—	—	—	—	—	—
Switzerland	—	—	—	—	—	85	85	—	—	—
Taiwan	6,300	1,443	—	294	—	1	1	—	—	—
Thailand	1,333	—	—	2	—	—	—	—	—	—
Trinidad and Tobago	—	128	—	0	—	478	478	—	—	—
Turkey	—	1,050	—	—	—	—	—	—	—	—
United Arab Emirates	784	0	—	0	—	1	1	—	—	—
United Kingdom	4,985	1,209	—	1	—	0	0	—	0	0
Venezuela	—	—	—	1	—	2	2	0	—	0
Other	1,383	3,847	—	3	—	477	477	2	2	3
Total	94,776	56,017	—	6,636	—	21,135	21,135	31	2,636	2,666

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, June 2019
(Thousand Barrels) — Continued

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
Argentina	—	—	—	0	—	—	1,832	—	246	—	2,079
Australia	0	0	0	—	—	—	—	—	—	—	—
Bahamas	—	—	0	—	—	—	2,251	150	286	—	2,688
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	7	—	0	—	—	—	—	—	245	—	245
Belize	—	—	—	—	—	—	—	39	—	—	39
Brazil	0	0	667	—	—	—	6,215	138	—	—	6,353
Canada	—	0	703	295	—	—	0	271	207	—	478
Cayman Islands	—	—	—	0	—	—	191	—	—	—	191
Chile	212	—	1	—	—	—	2,866	—	212	—	3,078
China	—	0	0	—	—	—	1	—	—	—	1
Colombia	—	—	161	—	—	—	1,103	—	—	—	1,103
Costa Rica	24	0	1	—	—	—	710	—	1	—	711
Denmark	—	—	—	—	—	—	—	—	—	—	—
Dominican Republic	—	—	3	—	—	—	622	—	280	—	902
Ecuador	—	—	—	—	—	—	260	260	260	—	780
Egypt	—	—	—	—	—	—	—	—	—	—	—
El Salvador	—	—	—	—	—	—	—	272	—	—	272
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	0	32	—	—	—	296	—	1	—	296
Germany	—	0	0	0	—	—	—	—	—	—	—
Ghana	—	—	—	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	324	—	600	—	924
Greece	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	256	915	70	—	1,241
Honduras	—	—	—	—	—	—	0	204	149	—	353
Hong Kong	—	—	0	—	—	—	—	—	—	—	—
India	0	0	521	—	—	—	0	—	—	—	0
Indonesia	59	—	—	—	—	—	—	—	—	—	—
Ireland	—	—	0	—	—	—	—	—	—	—	—
Israel	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	1	—	—	—	340	—	—	—	340
Jamaica	—	—	53	—	—	—	212	—	150	—	362
Japan	—	983	0	—	—	—	0	—	—	—	0
Korea, South	—	0	163	—	—	—	3	—	—	—	3
Lebanon	—	—	—	—	—	—	—	—	—	—	—
Mexico	747	1	86	2	—	—	9,036	—	23	—	9,059
Montenegro	—	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	—	2	—	—	1,238	—	—	—	1,238
Mozambique	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	0	—	—	—	—	1,462	210	285	—	1,958
New Zealand	—	—	—	—	—	—	0	—	—	—	0
Nicaragua	—	—	—	—	—	—	0	105	—	—	105
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—	—	—	—
Panama	—	—	—	—	—	—	803	216	831	—	1,850
Peru	—	—	146	—	—	—	1,606	—	—	—	1,606
Philippines	—	0	102	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	—	0	1	—	—	—	1	—	—	—	1
Romania	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	50	—	—	—	—	—	—	—	—
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—	—	—	—
Singapore	0	0	0	—	—	—	0	—	383	—	383
South Africa	—	—	—	—	—	—	—	—	—	—	—
Spain	—	—	137	—	—	—	1,539	—	142	—	1,680
Switzerland	—	—	2	—	—	—	0	—	—	—	0
Taiwan	—	0	0	—	—	—	2	—	—	—	2
Thailand	—	0	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	0	—	—	—	425	270	238	—	933
Turkey	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	0	—	—	—	—	—	—	—	—
United Kingdom	—	—	38	—	—	—	1,307	—	—	—	1,307
Venezuela	—	—	—	—	—	—	1	—	—	—	1
Other	328	1	191	1	—	—	1,178	318	998	—	2,493
Total	1,377	985	3,059	300	—	—	36,080	3,368	5,607	—	45,055

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, June 2019
(Thousand Barrels) — Continued

Destination	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
Argentina	—	—	—	181	—	0	—	—
Australia	—	—	—	—	—	0	—	—
Bahamas	—	—	—	20	—	90	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	0	—	—
Belize	—	—	—	10	—	—	—	—
Brazil	0	—	—	—	—	—	—	—
Canada	155	—	—	1,880	—	633	—	—
Cayman Islands	0	—	—	12	—	—	—	—
Chile	0	—	—	201	—	0	—	—
China	—	—	—	—	—	1	—	—
Colombia	0	—	—	—	—	0	—	—
Costa Rica	1	—	—	190	—	0	—	—
Denmark	—	—	—	—	—	—	—	—
Dominican Republic	—	—	—	183	—	150	—	—
Ecuador	—	—	—	—	—	213	—	—
Egypt	—	—	—	—	—	—	—	—
El Salvador	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—
Ghana	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	270	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	—	—	—	154	—	23	—	—
Honduras	0	—	—	43	—	173	—	—
Hong Kong	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—
Jamaica	—	—	—	85	—	382	—	—
Japan	—	—	—	—	—	—	—	—
Korea, South	0	—	—	0	—	—	—	—
Lebanon	—	—	—	0	—	392	—	—
Mexico	0	—	—	1,624	—	1,984	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	329	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	607	—	—
New Zealand	—	—	—	—	—	—	—	—
Nicaragua	0	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—
Panama	0	—	—	478	—	323	—	—
Peru	—	—	—	—	—	1	—	—
Philippines	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	—	—	—	0	—	—	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	0	—	—	—	—
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—
Singapore	0	—	—	—	—	0	—	—
South Africa	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—
Switzerland	—	—	—	—	—	—	—	—
Taiwan	—	—	—	—	—	0	—	—
Thailand	—	—	—	—	—	—	—	—
Trinidad and Tobago	0	—	—	0	—	—	—	—
Turkey	0	—	—	—	—	—	—	—
United Arab Emirates	0	—	—	—	—	—	—	—
United Kingdom	—	—	—	320	—	365	—	—
Venezuela	—	—	—	0	—	0	—	—
Other	9	—	—	801	—	1	—	—
Total	165	—	—	6,511	—	5,608	—	—

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, June 2019
(Thousand Barrels) — Continued

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina	0	0	0	41	0	2,329	2,329	—	78	78
Australia	1	316	0	37	0	1,463	2,463	33	49	82
Bahamas	—	—	4	5	—	2,866	2,866	—	96	96
Bahrain	—	—	—	0	—	0	0	—	0	0
Belgium	0	211	0	349	1	825	825	—	28	28
Belize	—	—	—	2	—	50	50	—	2	2
Brazil	0	1,135	—	362	1	14,100	17,248	105	470	575
Canada	71	971	210	249	8	15,914	25,243	311	530	841
Cayman Islands	—	—	1	0	—	222	222	—	7	7
Chile	0	—	3	84	0	5,279	5,279	—	176	176
China	2	1,792	1	16	1	2,078	10,828	292	69	361
Colombia	0	—	—	95	0	4,366	5,618	42	146	187
Costa Rica	—	6	3	13	0	1,406	1,406	—	47	47
Denmark	—	—	—	0	—	0	574	19	0	19
Dominican Republic	0	281	62	24	0	2,503	2,970	16	83	99
Ecuador	—	0	0	32	0	3,993	3,993	—	133	133
Egypt	—	—	186	0	—	186	186	—	6	6
El Salvador	0	6	0	28	—	956	956	—	32	32
Finland	—	—	—	0	—	0	0	—	0	0
France	0	311	—	1	—	813	2,781	66	27	93
Germany	1	0	1	3	—	10	1,322	44	0	44
Ghana	—	—	—	0	—	0	0	—	0	0
Gibraltar	—	—	—	—	—	1,195	1,195	—	40	40
Greece	—	—	—	0	—	0	1,071	36	0	36
Guatemala	0	193	0	17	—	3,464	3,464	—	115	115
Honduras	—	248	24	12	—	1,812	1,812	—	60	60
Hong Kong	0	—	—	1	0	553	553	—	18	18
India	2	1,509	0	5	0	4,429	13,142	290	148	438
Indonesia	0	0	0	2	0	2,780	2,780	—	93	93
Ireland	—	313	—	—	0	313	2,103	60	10	70
Israel	0	—	—	2	0	3	3	—	0	0
Italy	0	143	0	0	—	637	5,261	154	21	175
Jamaica	—	—	—	6	0	1,410	1,745	11	47	58
Japan	1	1,459	1	12	3	14,606	15,802	40	487	527
Korea, South	0	1	1	1	0	4,658	22,810	605	155	760
Lebanon	—	—	—	1	—	394	394	—	13	13
Mexico	18	1,474	318	994	64	31,272	31,272	—	1,042	1,042
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	253	—	—	—	3,225	3,225	—	107	107
Mozambique	—	86	—	—	—	86	86	—	3	3
Netherlands	3	828	1	4	0	7,039	15,265	274	235	509
New Zealand	0	39	0	1	—	39	39	—	1	1
Nicaragua	—	—	—	6	—	210	610	13	7	20
Nigeria	—	—	0	103	—	310	310	—	10	10
Norway	0	86	—	0	—	969	2,108	38	32	70
Pakistan	0	—	—	0	0	0	0	—	0	0
Panama	—	—	32	17	—	3,249	5,148	63	108	172
Peru	—	0	0	89	—	2,411	2,802	13	80	93
Philippines	—	303	—	2	—	407	407	—	14	14
Portugal	—	184	—	0	—	185	185	—	6	6
Puerto Rico	0	—	—	12	—	25	25	—	1	1
Romania	—	—	—	0	—	0	0	—	0	0
Saudi Arabia	0	202	—	5	—	258	258	—	9	9
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—	—	—
Singapore	0	—	0	2	0	401	2,813	80	13	94
South Africa	0	2	0	47	—	291	291	—	10	10
Spain	0	574	—	1	—	4,351	6,199	62	145	207
Switzerland	—	—	—	0	—	87	87	—	3	3
Taiwan	0	0	0	5	0	1,747	8,046	210	58	268
Thailand	0	—	—	1	0	4	1,336	44	0	45
Trinidad and Tobago	—	—	—	23	—	1,561	1,561	—	52	52
Turkey	0	—	0	5	—	1,055	1,055	—	35	35
United Arab Emirates	0	—	1	41	—	44	827	26	1	28
United Kingdom	0	0	—	3	0	3,243	8,228	166	108	274
Venezuela	—	5	—	6	—	14	14	—	0	0
Other	4	802	2	143	3	9,097	10,477	46	307	350
Total	103	13,733	851	2,910	81	167,193	261,968	3,159	5,573	8,732

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-June 2019
(Thousand Barrels)

Destination	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	13	1	—	1,501	—	963	963	—	—	—
Australia	2,559	1,732	—	4	—	977	977	1	—	1
Bahamas	—	219	—	0	—	609	609	0	1	1
Bahrain	—	—	—	0	—	—	—	—	—	—
Belgium	139	784	—	381	—	—	—	—	0	0
Belize	—	—	—	—	—	194	194	—	116	116
Brazil	9,953	10,757	—	5,461	—	9,321	9,321	—	2,034	2,034
Canada	82,876	45,466	—	9,756	—	4,488	4,488	—	5,088	5,088
Cayman Islands	—	47	—	—	—	399	399	1	0	1
Chile	5,637	5,084	—	47	—	1,331	1,331	—	—	—
China	25,518	1,866	—	1,466	—	6	6	—	—	—
Colombia	4,271	195	—	7,952	—	4,554	4,554	0	478	478
Costa Rica	—	704	—	309	—	2,453	2,453	—	—	—
Denmark	3,589	0	—	—	—	—	—	0	0	0
Dominican Republic	2,413	8,175	—	1,252	—	2,216	2,216	0	62	62
Ecuador	—	6,918	—	34	—	4,828	4,828	—	1,063	1,063
Egypt	—	2,509	—	—	—	—	—	—	1	1
El Salvador	—	1,394	—	2	—	2,153	2,153	0	0	1
Finland	—	—	—	0	—	1	1	—	—	—
France	8,369	3,596	—	135	—	2	2	—	0	0
Germany	5,658	112	—	39	—	2	2	—	0	0
Ghana	—	240	—	0	—	0	0	—	—	—
Gibraltar	—	—	—	—	—	318	318	—	—	—
Greece	1,519	0	—	—	—	0	0	—	—	—
Guatemala	—	2,617	—	15	—	6,497	6,497	0	1,046	1,046
Honduras	—	2,556	—	3	—	3,401	3,401	—	542	542
Hong Kong	—	551	—	0	—	—	—	—	—	—
India	52,360	19,742	—	27	—	0	0	1	—	1
Indonesia	630	13,756	—	18	—	—	—	—	—	—
Ireland	7,322	—	—	0	—	—	—	—	—	—
Israel	729	2	—	7	—	9	9	—	—	—
Italy	22,477	234	—	0	—	474	474	—	—	—
Jamaica	335	211	—	0	—	1,529	1,529	—	2	2
Japan	12,014	65,672	—	2,506	—	317	317	5	0	5
Korea, South	70,822	19,963	—	923	—	188	188	1	5	6
Lebanon	—	—	—	0	—	—	—	—	—	—
Mexico	—	25,206	—	1,936	—	80,591	80,591	83	7,741	7,825
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	6,789	—	0	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	47,650	10,405	—	3,410	—	1,151	1,151	0	—	0
New Zealand	—	2	—	0	—	0	0	—	—	—
Nicaragua	2,020	—	—	—	—	825	825	—	—	—
Nigeria	—	438	—	8	—	476	476	—	—	—
Norway	6,384	4,590	—	122	—	1	1	—	—	—
Pakistan	—	—	—	—	—	—	—	—	—	—
Panama	10,312	1	—	3	—	3,940	3,940	—	61	61
Peru	2,698	715	—	11	—	3,521	3,521	—	147	147
Philippines	—	1,037	—	2	—	—	—	—	—	—
Portugal	—	1,609	—	—	—	—	—	—	—	—
Puerto Rico	—	69	—	6	—	12	12	—	0	0
Romania	—	0	—	0	—	—	—	—	—	—
Saudi Arabia	—	5	—	4	—	—	—	—	0	0
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—	—	—
Singapore	13,988	1,966	—	356	—	320	320	—	50	50
South Africa	649	363	—	0	—	499	499	0	—	0
Spain	5,854	8,379	—	0	—	480	480	—	0	0
Switzerland	—	289	—	0	—	85	85	—	—	—
Taiwan	34,428	5,933	—	1,110	—	2	2	—	0	0
Thailand	18,762	0	—	5	—	—	—	—	—	—
Trinidad and Tobago	—	128	—	0	—	736	736	—	240	240
Turkey	—	3,485	—	0	—	—	—	1	—	1
United Arab Emirates	7,934	1	—	1	—	3	3	0	—	0
United Kingdom	38,471	10,228	—	2	—	6	6	—	0	0
Venezuela	—	270	—	2,040	—	1,482	1,482	4	2	6
Other	8,353	12,626	—	972	—	2,886	2,886	2	6	6
Total	516,706	309,637	—	41,826	—	144,246	144,246	99	18,685	18,784

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-June 2019
(Thousand Barrels) — Continued

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
Argentina	—	—	0	0	—	—	5,488	310	386	—	6,184
Australia	0	0	0	—	—	—	1	—	—	—	1
Bahamas	—	1	1	—	—	—	3,969	150	1,708	—	5,827
Bahrain	—	—	0	—	—	—	—	—	—	—	—
Belgium	35	0	1	—	—	—	—	—	245	—	245
Belize	—	—	—	—	—	—	140	256	41	—	437
Brazil	0	0	5,236	0	—	—	28,193	1,243	2,439	—	31,875
Canada	—	2	3,416	1,281	—	—	616	2,352	728	—	3,697
Cayman Islands	—	—	—	0	—	—	591	—	—	—	591
Chile	1,268	—	6	—	—	—	16,839	—	462	—	17,301
China	0	2	1	—	—	—	6	299	—	—	305
Colombia	—	—	894	—	—	—	7,387	—	—	—	7,387
Costa Rica	24	0	2	—	—	—	4,034	—	1	—	4,035
Denmark	—	—	—	—	—	—	—	—	—	—	—
Dominican Republic	—	—	4	—	—	—	1,858	1,300	1,342	—	4,500
Ecuador	—	0	0	—	—	—	3,427	2,172	260	—	5,859
Egypt	—	—	0	—	—	—	0	—	—	—	0
El Salvador	—	—	—	—	—	—	1,523	1,746	—	—	3,268
Finland	—	—	0	—	—	—	—	—	—	—	—
France	—	1	63	—	—	—	6,976	902	1	—	7,879
Germany	0	0	0	6	—	—	1	—	—	—	1
Ghana	—	—	—	—	—	—	2	—	—	—	2
Gibraltar	—	—	—	—	—	—	2,423	275	3,732	—	6,430
Greece	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	0	—	—	—	2,988	4,132	536	—	7,656
Honduras	—	0	—	—	—	—	1,166	1,221	1,087	—	3,474
Hong Kong	—	0	0	0	—	—	—	—	—	—	—
India	0	0	2,760	1	—	—	28	—	—	—	28
Indonesia	59	—	0	—	—	—	—	—	—	—	—
Ireland	—	0	0	—	—	—	254	—	—	—	254
Israel	—	0	1	—	—	—	0	—	—	—	0
Italy	—	—	1	—	—	—	406	—	—	—	406
Jamaica	—	0	281	—	—	—	782	71	566	—	1,418
Japan	—	4,788	88	—	—	—	3	24	—	—	27
Korea, South	155	1	1,170	—	—	—	718	—	—	—	718
Lebanon	—	—	0	—	—	—	0	—	—	—	0
Mexico	4,365	3	417	10	—	—	51,530	588	420	—	52,538
Montenegro	—	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	—	7	—	—	3,234	77	—	—	3,311
Mozambique	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	2	338	152	—	—	6,661	826	2,503	—	9,990
New Zealand	—	—	—	—	—	—	0	—	—	—	0
Nicaragua	—	—	—	—	—	—	169	953	210	—	1,332
Nigeria	—	—	174	—	—	—	—	—	—	—	—
Norway	0	—	50	—	—	—	336	—	—	—	336
Pakistan	—	—	—	—	—	—	—	—	—	—	—
Panama	—	—	0	—	—	—	5,561	813	2,579	—	8,952
Peru	—	0	651	30	—	—	11,226	—	—	—	11,226
Philippines	—	0	952	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	—	2	6	—	—	—	3	71	—	—	74
Romania	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	1	204	—	—	—	—	—	—	—	—
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—	—	—	—
Singapore	0	2	26	1	—	—	139	50	2,275	—	2,463
South Africa	—	—	0	—	—	—	0	—	—	—	0
Spain	—	—	270	—	—	—	3,605	248	142	—	3,994
Switzerland	—	—	230	6	—	—	0	—	4	—	4
Taiwan	0	0	2	—	—	—	2	9	—	—	11
Thailand	—	0	0	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	0	—	—	—	1,214	1,058	478	—	2,750
Turkey	—	—	—	—	—	—	1	—	—	—	1
United Arab Emirates	—	—	252	—	—	—	0	—	—	—	0
United Kingdom	—	0	124	—	—	—	7,438	—	—	—	7,438
Venezuela	259	—	—	—	—	—	276	—	—	—	276
Other	329	2	489	—	—	—	5,873	2,386	3,484	—	11,746
Total	6,494	4,807	18,110	1,494	—	—	187,087	23,532	25,629	—	236,247

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-June 2019
(Thousand Barrels) — Continued

Destination	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
Argentina	—	—	—	463	—	0	—	—
Australia	—	—	—	—	—	1	—	—
Bahamas	—	—	—	361	—	2,380	—	—
Bahrain	—	—	—	0	—	—	—	—
Belgium	—	—	—	—	—	0	—	—
Belize	—	—	—	72	—	—	—	—
Brazil	0	—	—	502	—	320	—	—
Canada	338	—	—	8,355	—	5,178	—	—
Cayman Islands	1	—	—	161	—	0	—	—
Chile	3	—	—	2,070	—	1	—	—
China	0	—	—	0	—	2	—	—
Colombia	0	—	—	177	—	1	—	—
Costa Rica	11	—	—	1,122	—	1	—	—
Denmark	—	—	—	—	—	—	—	—
Dominican Republic	1	—	—	1,685	—	687	—	—
Ecuador	0	—	—	8	—	1,921	—	—
Egypt	—	—	—	—	—	—	—	—
El Salvador	0	—	—	148	—	0	—	—
Finland	—	—	—	—	—	0	—	—
France	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	0	—	—
Ghana	—	—	—	—	—	345	—	—
Gibraltar	—	—	—	—	—	1,549	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	30	—	—	1,119	—	355	—	—
Honduras	11	—	—	359	—	1,472	—	—
Hong Kong	0	—	—	—	—	—	—	—
India	—	—	—	0	—	66	—	—
Indonesia	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	1	—	—	667	—	—	—	—
Italy	—	—	—	—	—	—	—	—
Jamaica	0	—	—	796	—	3,444	—	—
Japan	0	—	—	0	—	64	—	—
Korea, South	0	—	—	0	—	0	—	—
Lebanon	—	—	—	0	—	2,680	—	—
Mexico	145	—	—	9,435	—	10,820	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	329	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	—	—	—	0	—	5,793	—	—
New Zealand	0	—	—	—	—	—	—	—
Nicaragua	0	—	—	32	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—
Pakistan	0	—	—	—	—	—	—	—
Panama	1	—	—	3,038	—	4,308	—	—
Peru	1	—	—	1,052	—	1	—	—
Philippines	—	—	—	0	—	—	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	0	—	—	1	—	1	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	0	—	—	3	—	1	—	—
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—
Singapore	0	—	—	—	—	3,063	—	—
South Africa	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—
Switzerland	—	—	—	—	—	—	—	—
Taiwan	0	—	—	0	—	1	—	—
Thailand	—	—	—	—	—	0	—	—
Trinidad and Tobago	0	—	—	1,000	—	—	—	—
Turkey	1	—	—	0	—	—	—	—
United Arab Emirates	1	—	—	—	—	0	—	—
United Kingdom	0	—	—	645	—	735	—	—
Venezuela	—	—	—	17	—	0	—	—
Other	18	—	—	3,460	—	1,593	—	—
Total	563	—	—	37,077	—	46,783	—	—

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-June 2019
(Thousand Barrels) — Continued

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina	4	83	2	229	0	9,429	9,443	0	52	52
Australia	3	1,163	1	123	2	4,008	6,567	14	22	36
Bahamas	0	—	14	19	0	9,434	9,434	—	52	52
Bahrain	0	—	—	1	—	2	2	—	0	0
Belgium	0	2,226	0	2,611	6	6,290	6,430	1	35	36
Belize	—	—	—	7	0	827	827	—	5	5
Brazil	5	7,815	—	2,476	4	75,805	85,758	55	419	474
Canada	496	3,824	841	1,527	47	93,800	176,676	458	518	976
Cayman Islands	—	—	4	6	—	1,210	1,210	—	7	7
Chile	2	1	268	493	0	27,875	33,512	31	154	185
China	13	6,804	5	116	4	10,593	36,111	141	59	200
Colombia	1	238	2	603	2	22,484	26,755	24	124	148
Costa Rica	0	187	161	88	0	9,097	9,097	—	50	50
Denmark	—	345	—	0	—	345	3,934	20	2	22
Dominican Republic	1	1,189	572	140	1	20,486	22,899	13	113	127
Ecuador	0	914	0	467	0	22,013	22,013	—	122	122
Egypt	—	851	286	90	—	3,738	3,738	—	21	21
El Salvador	0	186	0	137	—	7,289	7,289	—	40	40
Finland	0	293	0	5	—	299	299	—	2	2
France	1	1,244	—	411	—	13,332	21,701	46	74	120
Germany	7	275	4	20	0	465	6,123	31	3	34
Ghana	—	—	0	1	—	588	588	—	3	3
Gibraltar	—	—	—	—	—	8,297	8,297	—	46	46
Greece	—	678	—	2	—	680	2,199	8	4	12
Guatemala	1	2,111	0	123	—	21,571	21,571	—	119	119
Honduras	0	973	152	85	—	13,030	13,030	—	72	72
Hong Kong	1	—	0	11	1	565	565	—	3	3
India	7	18,091	5	534	1	41,263	93,623	289	228	517
Indonesia	0	0	7	111	0	13,952	14,582	3	77	81
Ireland	—	736	—	0	0	991	8,313	40	5	46
Israel	0	625	0	96	0	1,409	2,138	4	8	12
Italy	1	2,872	0	29	—	4,017	26,494	124	22	146
Jamaica	0	—	0	41	1	7,723	8,058	2	43	45
Japan	33	11,334	5	62	20	84,923	96,937	66	469	536
Korea, South	1	772	3	17	1	23,918	94,740	391	132	523
Lebanon	—	517	—	4	—	3,201	3,201	—	18	18
Mexico	106	8,893	1,953	6,501	213	210,956	210,956	—	1,166	1,166
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	2,127	1	0	—	12,564	12,564	—	69	69
Mozambique	—	471	—	—	—	471	471	—	3	3
Netherlands	14	2,291	10	392	1	33,949	81,599	263	188	451
New Zealand	0	259	0	4	—	266	266	—	1	1
Nicaragua	—	—	—	29	—	2,218	4,238	11	12	23
Nigeria	—	—	33	599	—	1,728	1,728	—	10	10
Norway	0	598	—	3	—	5,700	12,084	35	31	67
Pakistan	1	0	—	1	0	1	1	—	0	0
Panama	0	271	174	122	0	20,871	31,183	57	115	172
Peru	0	368	0	443	0	18,167	20,866	15	100	115
Philippines	0	303	0	11	1	2,306	2,306	—	13	13
Portugal	0	396	—	0	—	2,006	2,006	—	11	11
Puerto Rico	0	0	25	78	—	273	273	—	2	2
Romania	0	991	—	1	0	993	993	—	5	5
Saudi Arabia	0	303	0	30	0	551	551	—	3	3
Serbia (Excludes Kosovo) ..	—	—	0	0	—	0	0	—	—	—
Singapore	1	193	149	74	0	8,664	22,652	77	48	125
South Africa	0	377	0	292	—	1,532	2,181	4	8	12
Spain	2	2,147	0	12	0	15,284	21,138	32	84	117
Switzerland	0	—	—	0	—	616	616	—	3	3
Taiwan	9	0	1	31	1	7,101	41,529	190	39	229
Thailand	0	122	2	21	1	151	18,913	104	1	104
Trinidad and Tobago	0	0	0	57	0	4,913	4,913	—	27	27
Turkey	0	4,764	0	69	—	8,322	8,322	—	46	46
United Arab Emirates	0	772	4	339	0	1,373	9,307	44	8	51
United Kingdom	2	636	1	13	0	19,829	58,300	213	110	322
Venezuela	—	29	—	30	—	4,409	4,409	—	24	24
Other	10	5,614	117	475	7	40,326	48,676	49	222	268
Total	722	98,272	4,802	20,312	314	990,489	1,507,195	2,855	5,472	8,327

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, June 2019
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	1,533	-55	-	117	-	-42	-42	0	8	8
Algeria	33	-	-	89	-	-	-	-	-	-
Angola	112	-	-	11	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	148	-53	-	1	-	-37	-37	-	-9	-9
Equatorial Guinea	17	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	355	-	-	-	-	-	-	-	-	-
Kuwait	26	0	-	0	-	-	-	0	-	0
Libya	55	-	-	-	-	-	-	-	-	-
Nigeria	251	-1	-	0	-	-5	-5	-	-	-
Saudi Arabia	562	0	-	17	-	-	-	-	-	-
United Arab Emirates	-26	0	-	0	-	0	0	-	16	16
Venezuela	-	-	-	0	-	0	0	0	-	0
Non-OPEC	2,449	-1,673	17	286	-	-620	-620	179	430	609
Argentina	10	2	-	0	-	0	0	-	-	-
Aruba	-	-	-	-	-	0	0	-	-	-
Australia	-33	-20	-	0	-	-17	-17	-	-	-
Bahamas	-	-1	-	-	-	-1	-1	-	0	0
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	0	-	56	-	-	-	1	21	22
Brazil	25	-80	-	-54	-	-47	-47	-	58	58
Brunei	30	-	-	-	-	-	-	-	-	-
Cameroon	23	-	-	10	-	-	-	-	-	-
Canada	3,516	-76	14	-34	-	-27	-27	92	27	119
Chad	16	-	-	-	-	-	-	-	-	-
China	-292	-9	-	0	-	0	0	-	-	-
Colombia	297	-2	-	-49	-	-43	-43	-	10	10
Denmark	15	-	-	-	-	-	-	0	-	0
Dominican Republic	-16	-18	-	-	-	-12	-12	-	0	0
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	4	20	24
France	-66	-5	2	0	-	10	10	9	3	12
Germany	-44	0	-	3	-	-	-	0	0	0
Guatemala	9	-14	-	0	-	-43	-43	-	-4	-4
Honduras	-	-21	-	-	-	-11	-11	-	0	0
India	-290	-79	-	0	-	-	-	-	69	69
Indonesia	-	-91	-	0	-	-	-	-	-	-
Italy	-154	-	-	4	-	-5	-5	3	20	23
Japan	-40	-394	-	-8	-	0	0	0	9	9
Korea, South	-605	-148	-	-1	-	9	9	-	1	1
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	0	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	545	-120	1	-13	-	-329	-329	-1	-34	-35
Netherlands	-274	-103	-	-7	-	-7	-7	14	52	66
Norway	113	-29	-	-	-	-	-	8	27	36
Oman	-	-	-	0	-	-	-	-	-	-
Panama	-63	0	-	-	-	-18	-18	-	-	-
Portugal	-	-	-	-	-	-	-	-	27	27
Puerto Rico	-	0	-	0	-	0	0	-	-	-
Qatar	-	-	-	0	-	-	-	-	-	-
Russia	193	-	-	279	-	-	-	1	28	29
Spain	-62	-65	-	21	-	-	-	0	19	19
Sweden	-	-14	-	1	-	-	-	1	1	3
Trinidad and Tobago	50	-4	-	0	-	-16	-16	-	12	12
United Kingdom	-105	-40	-	7	-	10	10	48	29	77
Vietnam	-	-	-	0	-	-	-	-	-	-
Virgin Islands, U.S.	-	-18	-	-	-	0	0	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-349	-324	0	71	-	-73	-73	-1	35	32
Total	3,982	-1,728	17	403	-	-662	-662	179	437	616
Persian Gulf²	917	0	-	17	-	0	0	0	16	16

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, June 2019
(Thousand Barrels per Day) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	0	-2	-	-	-	-9	-9	-9	5	-21
Algeria	-	-	0	-	-	-	-	-	-	-	-
Angola	-	0	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-9	-9	-9	5	-21
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-2	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	0	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	0	-	-	-	0
Non-OPEC	-46	-29	-81	0	20	-	-1,103	-102	-166	7	-1,364
Argentina	-	-	-	0	-	-	-61	-	-8	-	-69
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	0	0	0	-	-	-	-	-	-	-	-
Bahamas	-	-	0	-	-	-	-75	-5	-10	-	-90
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	0	-	0	-	-	-	-	-	-8	-	-8
Brazil	0	4	-3	-	-	-	-207	-5	-	-	-212
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	0	-23	-5	-	-	68	-8	6	1	67
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	0	0	-	-	-	0	-	-	-	0
Colombia	-	-	-5	-	-	-	-14	-	-	-	-14
Denmark	-	-	-	-	-	-	-	-	-	-	-
Dominican Republic	-	-	0	-	-	-	-21	-	-9	-	-30
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	0	-1	-	-	-	-10	-	0	-	-10
Germany	-	0	0	3	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-9	-31	-2	-	-41
Honduras	-	-	-	-	-	-	0	-7	-5	-	-12
India	0	0	-17	-	-	-	0	-	-	-	0
Indonesia	-2	-	-	-	-	-	-	-	-	-	-
Italy	-	-	0	-	-	-	-11	-	-	-	-11
Japan	-	-33	0	-	-	-	0	-	-	-	0
Korea, South	-	0	-5	2	-	-	0	-	-	-	0
Latvia	-11	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0	0	-	-	-	-	-	-	-	-
Mexico	-25	0	-3	0	-	-	-301	-	-1	-	-302
Netherlands	-	0	-	-	-	-	-49	-7	-10	-	-65
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-5	-	-	-	0	-	-	-	0
Panama	-	-	-	-	-	-	-27	-7	-28	-	-62
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	0	0	-	-	-	0	-	-	-	0
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	6	6
Spain	-	-	-5	-	-	-	-51	-	-5	-	-56
Sweden	-	-	-1	-	-	-	0	-	-	-	0
Trinidad and Tobago	-	-	0	-	-	-	-14	-9	-8	-	-31
United Kingdom	-	-	-1	-	-	-	-44	-	-	-	-44
Vietnam	-	0	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-10	-	-9	-	-19
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-8	0	-12	0	20	-	-267	-23	-69	0	-361
Total	-46	-29	-83	0	20	-	-1,112	-111	-174	12	-1,385
Persian Gulf²	-	-	-2	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, June 2019
(Thousand Barrels per Day) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
OPEC	0	-	-	0	-	-7	-	-
Algeria	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-7	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	-	-	-	0	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	0	-	-	-	-
United Arab Emirates	0	-	-	-	-	-	-	-
Venezuela	-	-	-	0	-	0	-	-
Non-OPEC	-5	0	-	-43	19	-86	15	3
Argentina	-	-	-	-6	-	0	-	-
Aruba	0	-	-	-	-	-	-	-
Australia	-	-	-	-	-	0	-	-
Bahamas	-	-	-	-1	-	-3	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	0	-	-
Brazil	0	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	-5	0	-	-22	0	8	3	3
Chad	-	-	-	-	-	-	-	-
China	-	-	-	-	-	0	-	-
Colombia	0	-	-	-	-	16	-	-
Denmark	-	-	-	-	-	-	-	-
Dominican Republic	-	-	-	-6	-	-5	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-5	-	-1	-	-
Honduras	0	-	-	-1	-	-6	-	-
India	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Japan	-	-	-	19	3	-	1	-
Korea, South	0	-	-	100	16	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-
Mexico	0	-	-	-54	-	-49	8	-
Netherlands	-	-	-	-	-	-18	-	-
Norway	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-
Panama	0	-	-	-16	-	-11	-	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	0	-	-	-	-
Qatar	0	-	-	-	-	-	-	-
Russia	-	-	-	-	-	27	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Trinidad and Tobago	0	-	-	0	-	-	-	-
United Kingdom	-	-	-	-11	-	-12	1	-
Vietnam	0	-	-	-	-	0	-	-
Virgin Islands, U.S.	0	-	-	-11	-	-	-	-
Yemen	-	-	-	-	-	-	-	-
Other	0	0	-	-29	0	-32	2	0
Total	-5	0	-	-43	19	-93	15	3
Persian Gulf²	0	-	-	0	-	-	-	-

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, June 2019
(Thousand Barrels per Day) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products
OPEC	0	-7	0	-6	0	-14	1,518
Algeria	—	—	—	0	—	89	122
Angola	—	—	0	—	—	11	123
Congo (Brazzaville)	—	—	—	—	—	—	—
Ecuador	—	0	0	-1	0	-127	21
Equatorial Guinea	—	—	—	0	—	0	17
Gabon	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—
Iraq	—	—	—	0	—	0	355
Kuwait	—	—	0	0	—	0	26
Libya	—	—	—	—	—	—	55
Nigeria	—	—	0	-3	—	-10	241
Saudi Arabia	0	-7	—	0	—	8	570
United Arab Emirates	0	—	0	-1	—	15	-11
Venezuela	—	0	—	0	—	0	0
Non-OPEC	2	-445	8	-46	-3	-3,461	-1,012
Argentina	0	4	0	-1	0	-71	-61
Aruba	—	—	0	0	—	0	0
Australia	0	-11	0	-1	0	-49	-82
Bahamas	—	—	0	0	—	-96	-96
Bahrain	—	—	—	2	—	2	2
Belgium	0	-7	0	-11	0	51	51
Brazil	0	-38	—	-12	0	-383	-358
Brunei	—	—	—	0	—	0	30
Cameroon	—	—	—	—	—	10	33
Canada	-1	-31	27	0	0	17	3,533
Chad	—	—	—	—	—	—	16
China	3	-60	0	-1	0	-66	-358
Colombia	0	—	—	-3	0	-90	207
Denmark	—	—	—	0	—	0	15
Dominican Republic	0	-9	-2	-1	0	-83	-99
Estonia	—	—	—	0	—	0	0
Finland	—	—	—	0	—	24	24
France	0	-10	—	1	—	-3	-68
Germany	0	0	0	0	—	7	-37
Guatemala	0	-6	0	-1	—	-115	-106
Honduras	—	-8	-1	0	—	-60	-60
India	0	-50	0	0	0	-79	-369
Indonesia	0	0	0	4	0	-88	-88
Italy	0	-5	0	0	—	6	-148
Japan	1	-49	0	0	0	-452	-492
Korea, South	0	0	0	11	0	-16	-621
Latvia	—	—	—	0	—	-11	-11
Lithuania	—	—	—	0	—	0	0
Malaysia	0	—	0	0	0	0	0
Mexico	-1	-49	-11	-33	-2	-1,017	-472
Netherlands	0	-28	0	0	0	-162	-436
Norway	0	-3	—	0	—	3	116
Oman	—	—	0	0	—	-5	-5
Panama	—	—	-1	-1	—	-108	-172
Portugal	—	-6	—	0	—	21	21
Puerto Rico	0	—	—	0	—	-1	-1
Qatar	0	0	—	17	—	17	17
Russia	—	—	—	0	—	341	534
Spain	0	-19	—	0	—	-105	-167
Sweden	0	0	—	0	—	-11	-11
Trinidad and Tobago	—	—	—	-1	—	-40	9
United Kingdom	0	0	—	0	0	-13	-118
Vietnam	0	—	—	0	0	0	0
Virgin Islands, U.S.	—	—	—	0	—	-47	-47
Yemen	—	—	—	0	—	0	0
Other	0	-60	-4	-15	-1	-789	-1,137
Total	2	-451	8	-52	-3	-3,476	506
Persian Gulf²	0	-7	0	17	—	42	959

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-June 2019
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	1,606	-42	-	100	-	-37	-37	0	21	21
Algeria	35	-	-	78	-	-	-	-	-	-
Angola	35	-	-	4	-	-	-	-	-	-
Congo (Brazzaville)	26	-	-	-	-	-	-	-	-	-
Ecuador	162	-38	-	0	-	-27	-27	-	-6	-6
Equatorial Guinea	12	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	351	-	-	0	-	-	-	-	-	-
Kuwait	66	0	-	0	0	0	0	0	-	0
Libya	58	-	-	5	-	-	-	-	-	-
Nigeria	158	-2	-	2	-	-3	-3	-	5	5
Saudi Arabia	585	0	-	8	-	0	0	-	12	12
United Arab Emirates	-44	0	-	13	-	0	0	0	3	3
Venezuela	162	-1	-	-11	-	-8	-8	0	7	7
Non-OPEC	2,588	-1,469	20	242	-	-688	-688	168	421	588
Argentina	31	1	-	-8	-	-5	-5	-	2	2
Aruba	-	0	-	0	-	-1	-1	-	-	-
Australia	-14	-10	-	2	-	-5	-5	0	-	0
Bahamas	-	-1	-	0	-	-3	-3	0	0	0
Bahrain	-	-	-	0	-	-	-	-	-	-
Belgium	-1	-4	-	52	-	1	1	3	19	22
Brazil	51	-59	-	-24	-	-51	-51	-	39	39
Brunei	16	-	-	-2	-	-	-	-	-	-
Cameroon	7	-	-	4	-	-	-	-	-	-
Canada	3,346	-57	17	-30	-	-9	-9	87	39	126
Chad	8	-	-	-	-	-	-	-	-	-
China	-141	-10	-	-8	-	0	0	-	1	1
Colombia	348	-1	-	-41	-	-25	-25	0	9	9
Denmark	1	0	-	-	-	-	-	0	2	2
Dominican Republic	-13	-45	-	-7	-	-12	-12	0	0	0
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	0	-	1	1	1	24	25
France	-46	-20	0	2	-	19	19	2	7	8
Germany	-31	-1	-	6	-	0	0	0	4	4
Guatemala	6	-14	-	0	-	-36	-36	0	-6	-6
Honduras	-	-14	-	0	-	-19	-19	-	-3	-3
India	-289	-109	-	5	-	0	0	0	72	72
Indonesia	-3	-76	-	0	-	-	-	-	3	3
Italy	-124	-1	-	7	-	-2	-2	0	20	20
Japan	-66	-363	-	-9	-	2	2	0	10	10
Korea, South	-391	-110	-	-5	-	6	6	0	6	6
Latvia	-	-	-	0	-	0	0	-	0	0
Lithuania	-4	-	-	0	-	-	-	-	2	2
Malaysia	-	0	-	2	-	0	0	-	-	-
Mexico	612	-139	0	-11	-	-445	-445	0	-37	-37
Netherlands	-261	-57	-	-6	-	0	0	32	47	79
Norway	34	-24	-	19	-	1	1	1	18	19
Oman	-	-	-	-2	-	-	-	-	-	-
Panama	-57	0	-	0	-	-22	-22	-	0	0
Portugal	-	-9	-	-	-	-	-	3	30	33
Puerto Rico	-	0	-	0	-	0	0	-	0	0
Qatar	-	-	-	0	-	0	0	-	-	-
Russia	142	-	-	226	-	2	2	0	31	31
Spain	-31	-46	-	13	-	-3	-3	0	30	30
Sweden	-	-12	-	7	-	1	1	0	3	3
Trinidad and Tobago	41	-1	-	0	-	-4	-4	-	1	1
United Kingdom	-146	-55	-	6	-	11	11	39	24	63
Vietnam	-8	-	-	0	-	0	0	-	-	-
Virgin Islands, U.S.	-	-13	-	-	-	-2	-2	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-429	-219	3	44	-	-88	-88	0	24	24
Total	4,194	-1,511	20	342	-	-725	-725	168	442	610
Persian Gulf²	958	0	-	22	-	0	0	0	15	15

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-June 2019
(Thousand Barrels per Day) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
OPEC	-1	0	-3	-	-	-	-9	-15	-1	1	-25
Algeria	-	-	0	-	-	-	-	-3	-	-	-3
Angola	-	0	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	0	0	-	-	-	-19	-12	-1	1	-32
Equatorial Guinea	-	-	-	-	-	-	-	-	0	-	0
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	0	-	-	-	0
Nigeria	-	-	-1	-	-	-	2	-	-	-	2
Saudi Arabia	-	0	-1	-	-	-	7	-	-	-	7
United Arab Emirates	-	-	-1	-	-	-	1	-	-	-	1
Venezuela	-1	-	-	-	-	-	0	-	-	-	0
Non-OPEC	-34	-24	-90	3	16	-	-833	-112	-134	2	-1,077
Argentina	1	-	0	0	-	-	-30	-2	-2	-	-34
Aruba	-	-	0	-	-	-	0	-	-	-	0
Australia	0	0	0	-	-	-	0	-	-	-	0
Bahamas	-	0	0	-	-	-	-19	-1	-9	-	-29
Bahrain	-	-	0	-	-	-	-	-	-	-	-
Belgium	0	0	0	1	-	-	-	-	-1	-	-1
Brazil	0	2	-23	0	-	-	-156	-7	-13	-	-176
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	0	-	-	-	0
Canada	-	0	-19	-3	-	-	100	-11	1	1	90
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	0	-	-	-	2	-2	-	-	0
Colombia	-	-	-5	-	-	-	-20	-	-	-	-20
Denmark	-	-	-	-	-	-	-	-	-	-	-
Dominican Republic	-	-	0	-	-	-	-10	-7	-7	-	-25
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	0	-	-	-	-	-	-	-	-
France	-	0	0	1	-	-	-39	-5	0	-	-44
Germany	0	0	0	3	-	-	0	-	1	-	1
Guatemala	-	-	0	-	-	-	-17	-23	-3	-	-42
Honduras	-	0	-	-	-	-	-6	-7	-6	-	-19
India	0	0	-15	0	-	-	36	-	-	-	36
Indonesia	0	-	0	-	-	-	-	-	-	-	-
Italy	-	-	0	-	-	-	-2	-	-	-	-2
Japan	-	-26	0	-	-	-	0	0	-	-	0
Korea, South	-1	0	-6	1	-	-	-1	-	-	-	-1
Latvia	-2	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0	0	-	-	-	0	-	0	-	0
Mexico	-24	0	-2	0	-	-	-285	-3	-2	-	-290
Netherlands	-	0	-2	-1	-	-	-37	-5	-14	-	-55
Norway	0	-	0	-	-	-	-2	-	-	-	-2
Oman	-	-	-2	-	-	-	0	-	-	-	0
Panama	-	-	0	-	-	-	-31	-4	-14	-	-49
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	0	0	-	-	-	0	0	-	-	0
Qatar	-	-	-	-	-	-	11	-	-	-	11
Russia	-	0	0	-	-	-	2	2	-	1	4
Spain	-	-	-1	1	-	-	-20	-1	-1	-	-22
Sweden	-	-	0	-	-	-	0	-	-	-	0
Trinidad and Tobago	-	-	0	-	-	-	-7	-6	-3	-	-15
United Kingdom	-	0	-1	-	-	-	-41	-	-	-	-41
Vietnam	-	0	0	-	-	-	0	-	-	-	0
Virgin Islands, U.S.	-	-	-	-	-	-	-5	-	-7	-	-12
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-8	0	-14	0	16	-	-256	-30	-54	0	-340
Total	-35	-24	-94	3	16	-	-842	-127	-135	3	-1,102
Persian Gulf²	-	0	-3	-	-	-	19	-	-	-	19

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-June 2019
(Thousand Barrels per Day) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
OPEC	0	-	-	5	-	7	-	-
Algeria	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-
Ecuador	0	-	-	0	-	-10	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	0	-	-	0	-	0	-	-
Kuwait	-	-	-	1	-	-	-	-
Libya	-	-	-	0	-	0	-	-
Nigeria	-	-	-	0	-	-	-	-
Saudi Arabia	0	-	-	3	-	4	-	-
United Arab Emirates	0	-	-	-	-	0	-	-
Venezuela	-	-	-	0	-	13	-	-
Non-OPEC	-3	1	-	-52	14	-119	14	3
Argentina	-	-	-	-3	-	11	-	-
Aruba	0	-	-	-1	-	-	-1	-
Australia	-	-	-	-	-	0	-	-
Bahamas	-	-	-	-2	-	-10	-	-
Bahrain	-	-	-	0	-	-	-	-
Belgium	-	-	-	-	-	0	-	-
Brazil	0	-	-	-3	1	-2	-	0
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	-2	0	-	-23	2	5	3	3
Chad	-	-	-	-	-	-	-	-
China	0	-	-	2	-	0	-	-
Colombia	1	-	-	-1	-	15	-	-
Denmark	-	-	-	-	-	-	-	-
Dominican Republic	0	-	-	-9	-	-4	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	0	-	-
France	-	-	-	-	-	-	-	1
Germany	-	-	-	-	-	0	-	-
Guatemala	0	-	-	-6	-	-2	-	-
Honduras	0	-	-	-2	-	-8	-	-
India	-	-	-	1	1	0	-	-
Indonesia	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	0	-
Japan	0	-	-	15	3	0	2	0
Korea, South	0	0	-	93	5	0	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	0	-	-	-	-	-	-	-
Malaysia	0	-	-	-	-	-	-	-
Mexico	-1	-	-	-52	0	-35	6	-
Netherlands	-	0	-	0	-	-27	-	-
Norway	-	-	-	-	-	1	-	-
Oman	-	-	-	-	-	-	-	-
Panama	0	-	-	-14	-	-24	-	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	0	-	-	0	-	0	-	-
Qatar	0	-	-	3	-	-	-	-
Russia	-	-	-	0	-	23	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	0	-	2	-	-
Trinidad and Tobago	0	-	-	-6	-	-	-	-
United Kingdom	0	-	-	-4	-	-4	1	-
Vietnam	0	-	-	0	-	0	-	-
Virgin Islands, U.S.	0	-	-	-9	-	-5	-	-
Yemen	-	-	-	-	-	-	-	-
Other	-1	1	-	-31	2	-55	2	-1
Total	-3	1	-	-48	14	-112	14	3
Persian Gulf²	0	-	-	7	-	4	-	-

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-June 2019
(Thousand Barrels per Day) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products
OPEC	0	-11	0	-5	0	8	1,614
Algeria	—	—	0	0	—	75	111
Angola	—	—	0	0	—	4	39
Congo (Brazzaville)	—	—	—	—	—	—	27
Ecuador	0	-5	0	-3	0	-120	42
Equatorial Guinea	—	—	—	0	—	0	12
Gabon	—	—	0	0	—	0	0
Iran	—	—	—	—	—	—	—
Iraq	—	—	0	0	—	0	351
Kuwait	—	0	0	0	—	1	66
Libya	—	—	—	0	—	5	63
Nigeria	—	—	0	-3	—	-1	157
Saudi Arabia	0	-2	0	0	0	32	617
United Arab Emirates	0	-4	0	1	0	12	-31
Venezuela	—	0	0	0	—	-1	161
Non-OPEC	1	-525	10	-64	-2	-3,235	-647
Argentina	0	3	0	-1	0	-33	-1
Aruba	—	—	0	0	—	-3	-3
Australia	0	-6	0	-1	0	-20	-34
Bahamas	0	—	0	0	0	-46	-46
Bahrain	0	—	—	2	—	2	2
Belgium	0	-12	0	-14	0	43	43
Brazil	0	-43	—	-14	0	-352	-301
Brunei	—	—	—	0	—	-2	14
Cameroon	—	—	—	0	—	4	12
Canada	-1	-19	26	-1	0	107	3,454
Chad	—	—	—	0	—	0	8
China	2	-38	0	-1	0	-53	-194
Colombia	0	-1	0	-3	0	-73	275
Denmark	—	-2	—	0	—	0	2
Dominican Republic	0	-7	-3	-1	0	-113	-126
Estonia	—	—	—	0	—	0	0
Finland	0	-2	0	0	—	24	24
France	0	-7	—	-2	—	-42	-88
Germany	0	-2	0	1	0	13	-18
Guatemala	0	-12	0	-1	—	-119	-113
Honduras	0	-5	-1	0	—	-72	-72
India	0	-100	0	-3	0	-113	-402
Indonesia	0	0	0	2	0	-71	-75
Italy	0	-16	0	0	—	7	-117
Japan	0	-63	0	0	0	-430	-497
Korea, South	0	-4	1	11	0	-5	-396
Latvia	—	—	—	0	0	-1	-1
Lithuania	—	0	—	0	—	2	-2
Malaysia	0	-3	0	0	0	-1	-1
Mexico	-1	-49	-11	-36	-1	-1,127	-515
Netherlands	0	-13	0	-2	0	-83	-344
Norway	0	-3	—	0	—	11	45
Oman	—	0	0	0	—	-3	-3
Panama	0	-1	-1	-1	0	-112	-169
Portugal	0	-2	—	0	—	22	22
Puerto Rico	0	0	0	0	—	-2	-2
Qatar	0	0	0	10	—	24	24
Russia	0	—	0	1	—	287	430
Spain	0	-12	3	0	0	-37	-68
Sweden	0	-1	—	0	0	-1	-1
Trinidad and Tobago	0	0	0	0	0	-25	16
United Kingdom	0	-3	0	0	0	-26	-172
Vietnam	0	0	0	0	0	0	-8
Virgin Islands, U.S.	—	—	0	0	0	-40	-40
Yemen	—	—	—	0	—	0	0
Other	1	-102	-4	-10	-1	-776	-1,209
Total	1	-536	9	-70	-2	-3,227	967
Persian Gulf²	0	-6	0	13	0	71	1,030

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, June 2019
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Crude Oil	14,786	141,807	879,742	21,733	50,711	1,108,779
Refinery	12,394	14,323	47,363	2,747	22,054	98,881
Tank Farms and Pipelines (Includes Cushing, OK)	2,392	127,484	187,561	18,986	25,677	362,100
Cushing, Oklahoma	—	52,808	—	—	—	52,808
Leases	—	—	—	—	—	—
Strategic Petroleum Reserve ¹	—	—	644,818	—	—	644,818
Alaskan In Transit	—	—	—	—	2,980	2,980
Total Stocks, All Oils (excluding Crude Oil)²	153,449	182,697	393,338	22,633	94,037	846,154
Refinery	15,898	47,313	126,024	11,431	51,930	252,596
Bulk Terminal	109,753	98,026	209,894	7,013	36,807	461,493
Pipeline	27,581	35,885	53,904	3,990	5,027	126,387
Natural Gas Processing Plant	217	1,473	3,516	199	273	5,678
Natural Gas Liquids	8,397	51,991	153,691	3,840	3,451	221,370
Refinery	532	3,835	7,111	399	1,268	13,145
Bulk Terminal	6,095	31,541	124,432	1,152	1,910	165,130
Pipeline	1,553	15,142	18,632	2,090	—	37,417
Natural Gas Processing Plant	217	1,473	3,516	199	273	5,678
Ethane	709	4,652	54,355	499	—	60,215
Refinery	—	—	205	—	—	205
Bulk Terminal	490	1,579	46,997	—	—	49,066
Pipeline	219	2,898	6,811	493	—	10,421
Natural Gas Processing Plant	—	175	342	6	—	523
Propane	4,863	20,004	44,376	1,334	1,128	71,705
Refinery	71	824	804	47	128	1,874
Bulk Terminal	3,642	15,107	37,235	394	952	57,330
Pipeline	1,047	3,439	5,845	811	—	11,142
Natural Gas Processing Plant	103	634	492	82	48	1,359
Normal Butane	2,439	15,149	37,475	1,319	1,786	58,168
Refinery	331	1,951	4,244	220	669	7,415
Bulk Terminal	1,844	11,735	29,034	739	953	44,305
Pipeline	223	1,214	2,484	318	—	4,239
Natural Gas Processing Plant	41	249	1,713	42	164	2,209
Isobutane	176	2,708	7,889	305	497	11,575
Refinery	130	682	1,460	117	469	2,858
Bulk Terminal	—	1,305	5,118	—	—	6,423
Pipeline	32	540	1,144	171	—	1,887
Natural Gas Processing Plant	14	181	167	17	28	407
Natural Gasoline	210	9,478	9,596	383	40	19,707
Refinery	—	378	398	15	2	793
Bulk Terminal	119	1,815	6,048	19	5	8,006
Pipeline	32	7,051	2,348	297	—	9,728
Natural Gas Processing Plant	59	234	802	52	33	1,180
Refinery Olefins	158	503	6,742	103	54	7,560
Refinery	158	495	1,936	103	54	2,746
Bulk Terminal	—	8	4,806	—	—	4,814
Pipeline	—	—	—	—	—	—
Natural Gas Processing Plant	—	—	—	—	—	—
Ethylene	—	—	0	—	—	0
Refinery	—	—	0	—	—	0
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Natural Gas Processing Plant	—	—	—	—	—	—
Propylene	76	384	6,112	0	12	6,584
Refinery	76	376	1,306	0	12	1,770
Bulk Terminal	—	8	4,806	—	—	4,814
Pipeline	—	—	—	—	—	—
Natural Gas Processing Plant	—	—	—	—	—	—
Normal Butylene	41	119	630	103	42	935
Refinery	41	119	630	103	42	935
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Natural Gas Processing Plant	—	—	—	—	—	—
Isobutylene	41	0	0	0	0	41
Refinery	41	0	0	0	0	41
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Natural Gas Processing Plant	—	—	—	—	—	—
Other Hydrocarbons	—	40	—	—	—	40
Refinery	—	40	—	—	—	40
Oxygenates (excluding Fuel Ethanol)	—	3	1,723	—	—	1,726
Refinery	—	—	—	—	—	—
Bulk Terminal	—	3	1,723	—	—	1,726
Pipeline	—	—	—	—	—	—

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, June 2019
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
MTBE	—	—	1,607	—	—	1,607
Refinery	—	—	—	—	—	—
Bulk Terminal ³	—	—	1,607	—	—	1,607
Pipeline	—	—	—	—	—	—
Other Oxygenates⁴	—	3	116	—	—	119
Refinery	—	—	—	—	—	—
Bulk Terminal	—	3	116	—	—	119
Pipeline	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	8,479	9,503	5,908	449	4,599	28,938
Refinery	215	143	492	216	391	1,457
Bulk Terminal	8,264	9,360	5,416	229	4,208	27,477
Pipeline	—	—	—	4	—	4
Fuel Ethanol²	6,956	8,523	4,088	355	2,651	22,573
Refinery	210	109	172	127	31	649
Bulk Terminal	6,746	8,414	3,916	224	2,620	21,920
Pipeline	—	—	—	4	—	4
Renewable Diesel Fuel⁵	1,523	980	1,820	94	1,906	6,323
Refinery	5	34	320	89	360	808
Bulk Terminal	1,518	946	1,500	5	1,546	5,515
Pipeline	—	—	—	—	—	—
Other Renewable Fuels	—	—	—	—	42	42
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	—	—	42	42
Pipeline	—	—	—	—	—	—
Unfinished Oils	5,251	13,790	51,345	3,597	21,920	95,903
Naphthas and Lighter	1,232	3,445	11,538	1,011	3,948	21,174
Refinery	1,232	3,424	10,257	1,011	3,478	19,402
Bulk Terminal	—	21	1,281	—	470	1,772
Kerosene and Light Gas Oils	828	2,401	9,487	516	3,773	17,005
Refinery	828	2,401	6,865	516	3,650	14,260
Bulk Terminal	—	—	2,622	—	123	2,745
Heavy Gas Oils	2,461	5,024	25,518	1,500	10,886	45,389
Refinery	2,371	4,659	20,798	1,500	10,341	39,669
Bulk Terminal	90	365	4,720	—	545	5,720
Residuum	730	2,920	4,802	570	3,313	12,335
Refinery	730	2,636	4,623	570	3,284	11,843
Bulk Terminal	—	284	179	—	29	492
Motor Gasoline Blending Components²	56,274	43,536	74,598	5,861	28,482	208,751
Refinery	4,249	12,076	28,950	3,155	13,708	62,138
Bulk Terminal	40,792	21,466	27,071	1,815	12,537	103,681
Pipeline	11,233	9,994	18,577	891	2,237	42,932
Reformulated - RBOB	19,861	6,299	11,857	—	14,077	52,094
Refinery	1,075	981	2,255	—	5,159	9,470
Bulk Terminal	13,522	3,341	4,702	—	7,699	29,264
Pipeline	5,264	1,977	4,900	—	1,219	13,360
Conventional	36,413	37,237	62,741	5,861	14,405	156,657
Refinery	3,174	11,095	26,695	3,155	8,549	52,668
Bulk Terminal	27,270	18,125	22,369	1,815	4,838	74,417
Pipeline	5,969	8,017	13,677	891	1,018	29,572
CBOB	24,549	29,453	34,801	4,259	7,711	100,773
Refinery	673	4,697	10,959	1,556	2,343	20,228
Bulk Terminal	17,907	16,887	10,447	1,812	4,354	51,407
Pipeline	5,969	7,869	13,395	891	1,014	29,138
GTAB	633	—	1	—	—	634
Refinery	—	—	1	—	—	1
Bulk Terminal	633	—	—	—	—	633
Pipeline	—	—	—	—	—	—
Other	11,231	7,784	27,939	1,602	6,694	55,250
Refinery	2,501	6,398	15,735	1,599	6,206	32,439
Bulk Terminal	8,730	1,238	11,922	3	484	22,377
Pipeline	—	148	282	—	4	434
Aviation Gasoline Blending Components	—	—	27	—	—	27
Refinery	—	—	27	—	—	27
Bulk Terminal	—	—	—	—	—	—
Finished Motor Gasoline	3,454	6,048	7,806	1,596	2,075	20,979
Refinery	36	1,211	2,884	713	653	5,497
Bulk Terminal	1,581	2,598	3,447	671	1,220	9,517
Pipeline	1,837	2,239	1,475	212	202	5,965
Reformulated	17	—	—	—	17	34
Refinery	—	—	—	—	17	17
Bulk Terminal	17	—	—	—	—	17
Pipeline	—	—	—	—	—	—
Reformulated (Blended with Fuel Ethanol)	17	—	—	—	17	34
Refinery	—	—	—	—	17	17
Bulk Terminal	17	—	—	—	—	17
Pipeline	—	—	—	—	—	—

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, June 2019
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Reformulated (Other)	—	—	—	—	—	—
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Conventional	3,437	6,048	7,806	1,596	2,058	20,945
Refinery	36	1,211	2,884	713	636	5,480
Bulk Terminal	1,564	2,598	3,447	671	1,220	9,500
Pipeline	1,837	2,239	1,475	212	202	5,965
Conventional (Blended with Fuel Ethanol)	54	207	—	67	—	328
Refinery	—	—	—	65	—	65
Bulk Terminal	54	207	—	2	—	263
Pipeline	—	—	—	—	—	—
Ed55 and Lower	54	207	—	67	—	328
Refinery	—	—	—	65	—	65
Bulk Terminal	54	207	—	2	—	263
Pipeline	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Conventional (Other)	3,383	5,841	7,806	1,529	2,058	20,617
Refinery	36	1,211	2,884	648	636	5,415
Bulk Terminal	1,510	2,391	3,447	669	1,220	9,237
Pipeline	1,837	2,239	1,475	212	202	5,965
Finished Aviation Gasoline	114	184	490	9	212	1,009
Refinery	—	82	356	9	123	570
Bulk Terminal	114	102	134	—	89	439
Pipeline	—	—	—	—	—	—
Kerosene-Type Jet Fuel	9,045	6,934	14,174	647	9,770	40,570
Refinery	646	1,663	6,387	271	3,914	12,881
Bulk Terminal	3,913	3,740	3,050	278	5,019	16,000
Pipeline	4,486	1,531	4,737	98	837	11,689
Kerosene	1,263	190	353	1	23	1,830
Refinery	78	126	118	1	2	325
Bulk Terminal	1,173	64	235	—	21	1,493
Pipeline	12	—	—	—	—	12
Distillate Fuel Oil²	44,305	32,979	36,606	4,066	12,884	130,840
Refinery	2,475	6,322	14,522	1,781	5,239	30,339
Bulk Terminal	33,370	19,678	11,601	1,590	5,900	72,139
Pipeline	8,460	6,979	10,483	695	1,745	28,362
15 ppm sulfur and Under	39,278	32,135	31,060	3,864	11,873	118,210
Refinery	1,953	5,865	12,064	1,624	4,648	26,154
Bulk Terminal	29,579	19,504	9,300	1,547	5,600	65,530
Pipeline	7,746	6,766	9,696	693	1,625	26,526
Greater than 15 ppm to 500 ppm sulfur	1,296	459	1,621	169	250	3,795
Refinery	285	105	949	124	250	1,713
Bulk Terminal	1,004	153	459	43	—	1,659
Pipeline	7	201	213	2	—	423
Greater than 500 ppm sulfur	3,731	385	3,925	33	761	8,835
Refinery	237	352	1,509	33	341	2,472
Bulk Terminal	2,787	21	1,842	—	300	4,950
Pipeline	707	12	574	—	120	1,413
Residual Fuel Oil⁶	7,393	1,385	16,061	210	5,290	30,339
Refinery	700	1,203	3,717	210	2,641	8,471
Bulk Terminal	6,693	182	12,344	—	2,643	21,862
Pipeline	—	—	—	—	6	6
Less than 0.31% Sulfur	1,644	61	1,886	28	202	3,821
Refinery	128	57	211	28	—	424
Bulk Terminal	1,516	4	1,675	—	202	3,397
0.31% to 1.00% Sulfur	1,417	269	2,219	5	546	4,456
Refinery	146	140	205	5	331	827
Bulk Terminal	1,271	129	2,014	—	215	3,629
Greater than 1.00% Percent Sulfur	4,332	1,055	11,956	177	4,536	22,056
Refinery	426	1,006	3,301	177	2,310	7,220
Bulk Terminal	3,906	49	8,655	—	2,226	14,836
Petrochemical Feedstocks	58	534	2,448	—	4	3,044
Refinery	58	534	2,448	—	4	3,044
Naphtha for Petrochemical Feedstock Use	—	434	1,773	—	—	2,269
Other Oils for Petrochemical Feedstock Use	—	100	675	—	—	775
Special Naphthas	43	127	982	—	29	1,181
Refinery	21	60	975	—	29	1,085
Bulk Terminal	22	67	7	—	—	96
Lubricants	1,088	548	7,956	—	718	10,310
Refinery	650	169	4,626	—	563	6,008
Bulk Terminal	438	379	3,330	—	155	4,302
Waxes	340	46	277	—	—	663
Refinery	340	46	277	—	—	663
Petroleum Coke	—	1,612	6,029	111	1,665	9,417
Refinery	—	1,612	6,029	111	1,665	9,417
Asphalt and Road Oil	7,752	12,627	5,746	2,127	2,789	31,041
Refinery	544	4,459	2,250	849	851	8,953
Bulk Terminal	7,208	8,168	3,496	1,278	1,938	22,088

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, June 2019
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Miscellaneous Products	35	117	376	16	72	616
Refinery	35	117	376	16	72	616
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Total Stocks, All Oils	168,235	324,504	1,273,080	44,366	144,748	1,954,933

— = No Data Reported.

Lease stocks were excluded from crude oil stocks beginning with data for July 2016 (see explanatory notes).

¹ Crude oil stocks in the Strategic Petroleum Reserve include non-U.S. stocks held under foreign or commercial storage agreements.

² Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

Includes stocks held at fuel ethanol production facilities.

³ Includes stocks held by merchant producers.

⁴ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

⁵ Renewable diesel fuel includes biodiesel and other renewable diesel.

⁶ Sulfur content not available for stocks held by pipelines.

Note: Stocks are reported as of the last day of the month.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report."

Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, June 2019
(Thousand Barrels)

Commodity	Motor Gasoline			Motor Gasoline Blending Components ¹			Kerosene
	Reformulated	Conventional	Total	Reformulated	Conventional	Total	
PAD District 1	17	1,600	1,617	14,597	30,444	45,041	1,251
Connecticut	—	—	—	1,144	35	1,179	13
Delaware	—	—	—	548	407	955	66
District of Columbia	—	—	—	—	—	—	—
Florida	—	612	612	—	5,874	5,874	—
Georgia	—	318	318	—	2,165	2,165	—
Maine	—	—	—	329	340	669	43
Maryland	—	—	—	993	139	1,132	61
Massachusetts	4	—	4	1,869	—	1,869	18
New Hampshire	—	—	—	—	—	—	—
New Jersey	—	116	116	5,794	10,799	16,593	394
New York	13	—	13	637	1,742	2,379	367
North Carolina	—	253	253	—	1,897	1,897	124
Pennsylvania	—	28	28	1,013	4,516	5,529	96
Rhode Island	—	—	—	758	—	758	—
South Carolina	—	149	149	—	1,192	1,192	22
Vermont	—	54	54	—	—	—	4
Virginia	—	30	30	1,512	1,145	2,657	43
West Virginia	—	40	40	—	193	193	—
PAD District 2	—	3,809	3,809	4,322	29,220	33,542	190
Illinois	—	307	307	2,150	4,335	6,485	138
Indiana	—	236	236	779	3,408	4,187	—
Iowa	—	150	150	—	1,375	1,375	13
Kansas	—	333	333	—	3,259	3,259	10
Kentucky	—	272	272	564	1,263	1,827	3
Michigan	—	156	156	60	2,692	2,752	—
Minnesota	—	506	506	—	1,841	1,841	—
Missouri	—	146	146	343	541	884	—
Nebraska	—	60	60	—	684	684	—
North Dakota	—	91	91	—	585	585	—
Ohio	—	657	657	3	3,235	3,238	7
Oklahoma	—	592	592	—	2,804	2,804	—
South Dakota	—	32	32	—	321	321	—
Tennessee	—	178	178	—	1,614	1,614	—
Wisconsin	—	93	93	423	1,263	1,686	19
PAD District 3	—	6,331	6,331	6,957	49,064	56,021	353
Alabama	—	121	121	—	1,114	1,114	6
Arkansas	—	158	158	20	822	842	—
Louisiana	—	1,087	1,087	787	12,420	13,207	82
Mississippi	—	1,442	1,442	36	2,206	2,242	—
New Mexico	—	13	13	—	605	605	—
Texas	—	3,510	3,510	6,114	31,897	38,011	265
PAD District 4	—	1,384	1,384	—	4,970	4,970	1
Colorado	—	250	250	—	1,293	1,293	—
Idaho	—	271	271	—	148	148	—
Montana	—	292	292	—	1,439	1,439	—
Utah	—	107	107	—	1,461	1,461	1
Wyoming	—	464	464	—	629	629	—
PAD District 5	17	1,856	1,873	12,858	13,387	26,245	23
Alaska	—	823	823	—	—	—	21
Arizona	—	47	47	788	407	1,195	—
California	17	221	238	11,906	6,363	18,269	2
Hawaii	—	1	1	—	1,023	1,023	—
Nevada	—	279	279	13	471	484	—
Oregon	—	37	37	—	1,442	1,442	—
Washington	—	448	448	151	3,681	3,832	—
U.S. Total	34	14,980	15,014	38,734	127,085	165,819	1,818

See footnotes at end of table.

Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, June 2019
(Thousand Barrels) — Continued

Commodity	Distillate Fuel Oil ¹				Residual Fuel Oil	Propane
	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	Greater than 500 ppm	Total		
PAD District 1	31,532	1,289	3,024	35,845	7,393	3,816
Connecticut	1,818	6	63	1,887	13	—
Delaware	531	34	41	606	696	14
District of Columbia	—	—	—	—	—	—
Florida	2,628	132	—	2,760	658	171
Georgia	1,339	—	—	1,339	260	15
Maine	887	1	225	1,113	66	—
Maryland	1,647	—	—	1,647	218	2
Massachusetts	1,188	159	146	1,493	24	—
New Hampshire	253	—	—	253	2	27
New Jersey	10,658	293	1,381	12,332	3,118	36
New York	3,096	59	177	3,332	1,617	572
North Carolina	1,442	—	6	1,448	—	15
Pennsylvania	3,092	265	631	3,988	601	2,578
Rhode Island	693	42	—	735	—	—
South Carolina	693	—	—	693	28	315
Vermont	69	—	8	77	—	—
Virginia	1,363	264	346	1,973	92	1
West Virginia	135	34	—	169	—	70
PAD District 2	25,369	258	373	26,000	1,385	16,565
Illinois	2,809	—	—	2,809	419	643
Indiana	3,181	—	70	3,251	68	277
Iowa	2,950	—	—	2,950	—	441
Kansas	2,700	—	—	2,700	63	11,488
Kentucky	819	14	—	833	152	237
Michigan	1,257	53	—	1,310	200	2,251
Minnesota	1,959	—	22	1,981	222	194
Missouri	660	86	9	755	—	73
Nebraska	1,099	—	—	1,099	—	338
North Dakota	1,084	1	—	1,085	26	57
Ohio	1,843	—	94	1,937	111	423
Oklahoma	2,198	96	65	2,359	34	47
South Dakota	825	—	—	825	—	22
Tennessee	1,041	—	—	1,041	78	3
Wisconsin	944	8	113	1,065	12	71
PAD District 3	21,364	1,408	3,351	26,123	16,061	38,531
Alabama	900	8	56	964	520	32
Arkansas	896	—	17	913	—	35
Louisiana	4,891	704	1,099	6,694	8,124	1,897
Mississippi	815	382	133	1,330	59	3,498
New Mexico	301	—	—	301	74	4
Texas	13,561	314	2,046	15,921	7,284	33,065
PAD District 4	3,171	167	33	3,371	210	523
Colorado	622	—	—	622	5	25
Idaho	256	—	—	256	—	—
Montana	1,092	71	—	1,163	77	28
Utah	550	35	33	618	60	405
Wyoming	651	61	—	712	68	65
PAD District 5	10,248	250	641	11,139	5,284	1,128
Alaska	1,162	—	40	1,202	344	3
Arizona	250	—	—	250	—	698
California	5,351	250	319	5,920	3,269	265
Hawaii	218	—	279	497	892	98
Nevada	323	—	3	326	—	—
Oregon	823	—	—	823	20	—
Washington	2,121	—	—	2,121	759	64
U.S. Total	91,684	3,372	7,422	102,478	30,333	60,563

— = No Data Reported.

¹ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

Note: Stocks are reported as of the last day of the month.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report."

Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, June 2019
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	359	28	0	4,942	69,019	6,131	5,148	1,656	29,974
Petroleum Products	16,517	283	0	14,368	38,449	7,771	5,309	102,425	23,533
Natural Gas Liquids	6,644	283	0	2,087	26,807	4,389	518	659	6,787
Ethane	5,018	0	—	0	11,334	564	—	0	939
Propane	895	113	0	1,731	7,547	2,106	222	659	895
Normal Butane	175	91	0	140	4,494	917	244	0	303
Isobutane	299	79	0	216	1,257	337	52	0	273
Natural Gasoline	257	0	—	0	2,175	465	—	0	4,377
Refinery Olefins	0	0	—	308	218	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	308	218	—	—	0	0
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	40	0	—	0	1,561	—	—	52	412
Motor Gasoline Blending Components	6,693	0	0	1,170	1,961	1,598	0	55,756	11,307
Reformulated - RBOB	0	0	0	10	256	—	0	8,626	7,226
Conventional	6,693	0	0	1,160	1,705	1,598	0	47,130	4,081
CBOB	6,693	0	0	1,160	1,541	1,598	0	47,130	3,403
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	—	164	—	—	—	678
Renewable Fuels	0	0	0	7,939	6,238	167	4,627	194	0
Fuel Ethanol	0	0	0	7,829	6,093	167	4,554	175	0
Renewable Diesel Fuel ²	0	0	0	111	144	—	72	19	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	94	0	0	378	157	244	0	2,044	1,545
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	94	0	0	378	157	244	0	2,044	1,545
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	94	0	0	378	157	244	0	2,044	1,545
Finished Aviation Gasoline	—	0	—	0	0	—	—	45	—
Kerosene-Type Jet Fuel	324	0	0	129	50	807	0	14,978	1,549
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	2,722	0	0	1,102	899	546	0	27,484	1,612
15 ppm sulfur and under	2,722	0	0	1,102	899	546	0	26,390	1,514
Greater than 15 ppm to 500 ppm sulfur	0	0	—	—	0	—	—	—	98
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	1,094	—
Residual Fuel Oil	0	0	—	—	110	—	—	—	0
Petrochemical Feedstocks	—	0	—	0	0	—	—	109	—
Naphtha for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—
Other Oils for Petrochemical Feedstock Use	—	0	—	0	0	—	—	109	—
Special Naphthas	0	0	—	—	0	—	—	—	10
Lubricants	0	0	—	0	0	—	—	591	118
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	623	197	0	0	80	0
Asphalt and Road Oil	0	0	0	632	241	20	164	432	193
Miscellaneous Products	0	0	—	—	10	—	—	—	0
Total	16,876	311	0	19,310	107,468	13,902	10,457	104,081	53,507

See footnotes at end of table.

Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, June 2019
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to		
	4	5	1	2	3	5	1	3	4
Crude Oil	0	184	0	26,903	725	0	0	0	0
Petroleum Products	0	4,709	0	12,726	3,933	2,262	0	75	0
Natural Gas Liquids	0	82	0	11,334	3,388	86	0	0	0
Ethane	0	—	0	2,228	1,036	—	0	0	0
Propane	0	0	0	4,779	1,124	75	0	0	0
Normal Butane	0	69	0	2,012	401	11	0	0	0
Isobutane	0	13	0	837	305	0	0	0	0
Natural Gasoline	0	—	0	1,478	522	—	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	—
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	—
Motor Gasoline Blending Components	0	3,433	0	131	0	957	0	0	0
Reformulated - RBOB	—	2,155	0	0	0	0	0	0	—
Conventional	0	1,278	0	131	0	957	0	0	0
CBOB	0	1,278	0	131	0	957	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	—	—	—	0	0	—	—	0	—
Renewable Fuels	0	541	0	0	0	0	0	0	0
Fuel Ethanol	0	206	0	0	0	0	0	0	0
Renewable Diesel Fuel ²	—	335	0	0	0	0	0	0	—
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	370	0	358	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	370	0	358	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	370	0	358	0	0	0
Finished Aviation Gasoline	—	—	0	—	0	—	0	0	—
Kerosene-Type Jet Fuel	0	197	0	12	0	10	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	376	0	457	0	387	0	0	0
15 ppm sulfur and under	0	376	0	457	0	387	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	—	0	0	—	—	0	—
Greater than 500 ppm sulfur	—	—	0	—	0	—	0	0	—
Residual Fuel Oil	—	—	—	0	0	—	—	0	—
Petrochemical Feedstocks	—	—	0	—	0	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—
Other Oils for Petrochemical Feedstock Use	—	—	0	—	0	—	0	0	—
Special Naphthas	—	—	—	0	0	—	—	0	—
Lubricants	—	—	0	0	0	—	0	0	—
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	232	362	50	0	75	0
Asphalt and Road Oil	0	80	0	190	184	413	0	0	0
Miscellaneous Products	—	—	—	0	0	—	—	0	—
Total	0	4,894	0	39,629	4,658	2,262	0	75	0

— = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil include movements by rail. Movements of other products are by pipeline, tanker and barge only.

² Renewable diesel fuel includes biodiesel and other renewable diesel.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, June 2019
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	255	28	264	66,411	6,131	120	29,974	0	-
Petroleum Products	16,329	0	2,659	28,217	7,584	79,018	21,099	0	4,006
Natural Gas Liquids	6,496	0	880	25,314	4,389	641	6,720	0	-
Ethane	5,018	0	0	11,334	564	0	939	0	-
Propane	839	0	880	6,874	2,106	641	868	0	-
Normal Butane	111	0	0	3,810	917	0	303	0	-
Isobutane	271	0	0	1,121	337	0	233	0	-
Natural Gasoline	257	0	0	2,175	465	0	4,377	0	-
Motor Gasoline Blending Components	6,693	0	657	1,797	1,598	41,777	10,926	0	3,433
Reformulated - RBOB	0	0	0	256	-	8,626	7,226	-	2,155
Conventional	6,693	0	657	1,541	1,598	33,151	3,700	0	1,278
CBOB	6,693	0	657	1,541	1,598	33,151	3,403	0	1,278
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	297	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	94	0	314	157	244	1,142	816	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	94	0	314	157	244	1,142	816	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	94	0	314	157	244	1,142	816	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	324	0	129	50	807	12,152	1,169	0	197
Kerosene	-	-	-	-	-	-	-	-	-
Distillate Fuel Oil	2,722	0	679	899	546	23,306	1,468	0	376
15 ppm sulfur and under	2,722	0	679	899	546	22,212	1,370	0	376
Greater than 15 ppm to 500 ppm sulfur	0	0	-	0	-	-	98	-	-
Greater than 500 ppm sulfur	-	0	0	0	-	1,094	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	16,584	28	2,923	94,628	13,715	79,138	51,073	0	4,006

See footnotes at end of table.

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, June 2019
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	26,903	313	—	0	0
Petroleum Products	0	12,304	3,388	1,712	0	0
Natural Gas Liquids	0	11,334	3,388	—	0	0
Ethane	0	2,228	1,036	—	0	0
Propane	0	4,779	1,124	—	0	0
Normal Butane	0	2,012	401	—	0	0
Isobutane	0	837	305	—	0	0
Natural Gasoline	0	1,478	522	—	0	0
Motor Gasoline Blending Components	0	131	0	957	0	0
Reformulated - RBOB	0	0	0	0	0	—
Conventional	0	131	0	957	0	0
CBOB	0	131	0	957	0	0
GTAB	—	—	—	—	—	—
Other	—	0	0	—	0	—
Renewable Fuels	—	—	—	—	—	—
Fuel Ethanol	—	—	—	—	—	—
Renewable Diesel Fuel ¹	—	—	—	—	—	—
Other Renewable Fuels	—	—	—	—	—	—
Finished Motor Gasoline	0	370	0	358	0	0
Reformulated	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—
Conventional	0	370	0	358	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Conventional Other	0	370	0	358	0	0
Finished Aviation Gasoline	—	—	—	—	—	—
Kerosene-Type Jet Fuel	0	12	0	10	0	0
Kerosene	—	—	—	—	—	—
Distillate Fuel Oil	0	457	0	387	0	0
15 ppm sulfur and under	0	457	0	387	0	0
Greater than 15 ppm to 500 ppm sulfur	—	0	0	—	0	—
Greater than 500 ppm sulfur	0	—	0	—	0	—
Residual Fuel Oil	—	—	—	—	—	—
Miscellaneous Products	—	—	—	—	—	—
Total	0	39,207	3,701	1,712	0	0

— = No Data Reported.

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report."

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, June 2019
(Thousand Barrels)

Commodity	From 1 to			From 2 to		
	2	3	5	1	3	5
Crude Oil	104	0	—	283	1,088	—
Petroleum Products	40	0	0	1,350	2,277	0
Natural Gas Liquids	—	0	—	0	0	—
Ethane	—	—	—	—	—	—
Propane	—	0	—	0	0	—
Normal Butane	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—
Unfinished Oils	40	0	—	0	1,561	—
Motor Gasoline Blending Components	0	0	—	513	164	—
Reformulated - RBOB	0	—	—	10	—	—
Conventional	0	0	—	503	164	—
CBOB	0	0	—	503	0	—
GTAB	—	—	—	—	—	—
Other	0	0	—	—	164	—
Renewable Fuels	0	0	0	223	376	0
Fuel Ethanol	0	0	—	223	355	—
Renewable Diesel Fuel ¹	—	0	0	—	21	0
Other Renewable Fuels	—	—	—	—	—	—
Finished Motor Gasoline	0	0	—	64	0	—
Reformulated	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—
Conventional	0	0	—	64	0	—
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Conventional Other	0	0	—	64	0	—
Finished Aviation Gasoline	—	0	—	0	0	—
Kerosene-Type Jet Fuel	0	0	—	0	0	—
Kerosene	—	—	—	—	—	—
Distillate Fuel Oil	0	0	—	423	0	—
15 ppm sulfur and under	0	0	—	423	0	—
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—
Greater than 500 ppm sulfur	—	—	—	—	—	—
Residual Fuel Oil	0	0	—	—	110	—
Less than 0.31 percent sulfur	—	—	—	—	—	—
0.31 to 1.00 percent sulfur	—	—	—	—	—	—
Greater than 1.00 percent sulfur	0	0	—	—	110	—
Petrochemical Feedstocks	—	0	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	—	—	—
Other Oils for Petrochemical Feedstock Use	—	0	—	0	0	—
Special Naphthas	0	0	—	—	0	—
Lubricants	0	0	—	0	0	—
Waxes	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—
Asphalt and Road Oil	0	0	—	127	56	—
Miscellaneous Products	0	0	—	—	10	—
Total	144	0	0	1,633	3,365	0

See footnotes at end of table.

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, June 2019
(Thousand Barrels) — Continued

Commodity	From 3 to						From 5 to		
	1	New England	Central Atlantic	Lower Atlantic	2	5	1	2	3
Crude Oil	1,536	—	1,536	—	0	—	0	0	0
Petroleum Products	23,142	—	551	22,591	2,347	314	0	0	0
Natural Gas Liquids	18	—	—	18	—	—	0	—	0
Ethane	—	—	—	—	—	—	—	—	—
Propane	18	—	—	18	—	—	0	—	0
Normal Butane	—	—	—	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—	—	—	—
Unfinished Oils	52	—	52	—	412	—	0	0	0
Motor Gasoline Blending Components	13,979	—	—	13,979	381	—	0	0	0
Reformulated - RBOB	0	—	—	—	0	—	0	0	—
Conventional	13,979	—	—	13,979	381	—	0	0	0
CBOB	13,979	—	—	13,979	0	—	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	—	—	—	—	381	—	—	0	0
Renewable Fuels	175	—	—	175	0	314	0	0	0
Fuel Ethanol	175	—	—	175	0	—	0	0	0
Renewable Diesel Fuel ¹	—	—	—	—	0	314	—	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	902	—	—	902	729	—	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	902	—	—	902	729	—	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	902	—	—	902	729	—	0	0	0
Finished Aviation Gasoline	45	—	—	45	—	—	0	—	0
Kerosene-Type Jet Fuel	2,826	—	—	2,826	380	—	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	4,178	—	105	4,073	144	—	0	0	0
15 ppm sulfur and under	4,178	—	105	4,073	144	—	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Greater than 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Residual Fuel Oil	—	—	—	—	0	—	—	0	0
Less than 0.31 percent sulfur	—	—	—	—	—	—	—	—	—
0.31 to 1.00 percent sulfur	—	—	—	—	—	—	—	—	—
Greater than 1.00 percent sulfur	—	—	—	—	0	—	—	0	0
Petrochemical Feedstocks	109	—	109	—	—	—	0	—	0
Naphtha for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—
Other Oils for Petrochemical Feedstock Use	109	—	109	—	—	—	0	—	0
Special Naphthas	—	—	—	—	10	—	—	0	0
Lubricants	591	—	285	306	118	—	0	0	0
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	267	—	—	267	173	—	0	0	0
Miscellaneous Products	—	—	—	—	0	—	—	0	0
Total	24,678	—	2,087	22,591	2,347	314	0	0	0

— = No Data Reported.

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

Sources: Energy Information Administration (EIA) Form EIA-817, "Monthly Tanker and Barge Movements Report."

Table 60. Movements of Crude Oil and Selected Products by Rail Between PAD Districts, June 2019
(Thousand Barrels)

Commodity	From 1 to				From 2 to			
	2	3	4	5	1	3	4	5
Crude Oil	0	0	0	0	4,395	1,520	0	5,148
Propane	56	113	0	0	851	673	0	222
Propylene	0	0	–	–	308	218	–	–
Normal Butane	64	91	0	0	140	684	0	244
Isobutane	28	79	0	0	216	136	0	52
Fuel Ethanol	0	0	0	0	7,606	5,738	167	4,554
Biodiesel	0	0	–	0	111	123	–	72
Marketable Petroleum Coke	0	0	0	0	623	197	0	0
Asphalt and Road Oil	0	0	0	0	505	185	20	164

Commodity	From 3 to				From 4 to			
	1	2	4	5	1	2	3	5
Crude Oil	0	0	0	184	0	0	412	0
Propane	0	27	0	0	0	0	0	75
Propylene	0	0	–	–	0	0	0	–
Normal Butane	0	0	0	69	0	0	0	11
Isobutane	0	40	0	13	0	0	0	0
Fuel Ethanol	0	0	0	206	0	0	0	0
Biodiesel	19	0	–	21	0	0	0	0
Marketable Petroleum Coke	80	0	0	0	0	232	362	50
Asphalt and Road Oil	165	20	0	80	0	190	184	413

Commodity	From 5 to			
	1	2	3	4
Crude Oil	0	0	0	0
Propane	0	0	0	0
Propylene	0	0	0	–
Normal Butane	0	0	0	0
Isobutane	0	0	0	0
Fuel Ethanol	0	0	0	0
Biodiesel	0	0	0	–
Marketable Petroleum Coke	0	0	75	0
Asphalt and Road Oil	0	0	0	0

– = No Data Reported.

Source: Rail Movements are estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 61. Movements of Crude Oil by Pipeline, Tanker, Barge and Rail between PAD Districts, June 2019
(Thousand Barrels)

PADD	Pipeline	Tanker and Barge	Rail	Total
From 1 to				
2	255	104	0	359
3	28	0	0	28
4	0	—	0	0
5	—	—	0	0
From 2 to				
1	264	283	4,395	4,942
3	66,411	1,088	1,520	69,019
4	6,131	—	0	6,131
5	—	—	5,148	5,148
From 3 to				
1	120	1,536	0	1,656
2	29,974	0	0	29,974
4	0	—	0	0
5	—	—	184	184
From 4 to				
1	0	0	0	0
2	26,903	0	0	26,903
3	313	0	412	725
5	—	—	0	0
From 5 to				
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	—	0	0

— = No Data Reported.

Sources: Energy Information Administration (EIA) Forms EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail ¹ Between PAD Districts, June 2019
(Thousand Barrels)

Commodity	PAD District 1			PAD District 2			PAD District 3		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	6,598	387	6,211	57,236	85,240	-28,004	69,772	31,814	37,958
Petroleum Products	116,793	16,800	99,993	52,776	65,897	-13,121	42,740	130,667	-87,928
Natural Gas Liquids	2,746	6,927	-4,181	24,765	33,801	-9,036	30,478	7,528	22,950
Ethane	0	5,018	-5,018	8,185	11,898	-3,713	12,370	939	11,431
Propane	2,390	1,008	1,382	6,569	11,606	-5,037	8,784	1,554	7,230
Normal Butane	140	266	-126	2,490	5,795	-3,305	4,986	372	4,614
Isobutane	216	378	-162	1,409	1,862	-453	1,641	286	1,355
Natural Gasoline	0	257	-257	6,112	2,640	3,472	2,697	4,377	-1,680
Refinery Olefins	308	0	308	0	526	-526	218	0	218
Ethylene	0	0	-	-	-	-	0	0	-
Propylene	308	0	308	0	526	-526	218	0	218
Normal Butylene	0	0	-	0	0	-	0	0	-
Isobutylene	0	0	-	0	0	-	0	0	-
Unfinished Oils	52	40	12	452	1,561	-1,109	1,561	464	1,097
Motor Gasoline Blending Components	56,926	6,693	50,233	18,131	4,729	13,402	1,961	70,496	-68,535
Reformulated - RBOB	8,636	0	8,636	7,226	266	6,960	256	18,007	-17,751
Conventional	48,290	6,693	41,597	10,905	4,463	6,442	1,705	52,489	-50,784
CBOB	48,290	6,693	41,597	10,227	4,299	5,928	1,541	51,811	-50,270
GTAB	0	0	-	-	-	-	0	0	-
Other	0	0	-	678	164	514	164	678	-514
Renewable Fuels	8,133	0	8,133	0	18,970	-18,970	6,238	735	5,503
Fuel Ethanol	8,004	0	8,004	0	18,643	-18,643	6,093	381	5,713
Renewable Diesel Fuel ²	130	0	130	0	327	-327	144	354	-210
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	2,422	94	2,328	2,009	779	1,230	157	3,589	-3,432
Reformulated	0	0	-	0	0	-	0	0	-
Reformulated Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	2,422	94	2,328	2,009	779	1,230	157	3,589	-3,432
Conventional Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Ed55 and Lower	0	0	-	0	0	-	0	0	-
Greater than Ed55	0	0	-	0	0	-	0	0	-
Conventional Other	2,422	94	2,328	2,009	779	1,230	157	3,589	-3,432
Finished Aviation Gasoline	45	0	45	0	0	-	0	45	-45
Kerosene-Type Jet Fuel	15,107	324	14,783	1,885	986	899	50	16,724	-16,674
Kerosene	0	0	-	0	0	-	0	0	-
Distillate Fuel Oil	28,586	2,722	25,864	4,791	2,547	2,244	899	29,472	-28,573
15 ppm sulfur and under	27,492	2,722	24,770	4,693	2,547	2,146	899	28,280	-27,381
Greater than 15 ppm to 500 ppm sulfur	0	0	-	98	0	98	0	98	-98
Greater than 500 ppm sulfur	1,094	0	1,094	0	0	-	0	1,094	-1,094
Residual Fuel Oil	0	0	-	0	110	-110	110	0	110
Petrochemical Feedstocks	109	0	109	0	0	-	0	109	-109
Naphtha for Petrochemical Feedstock Use	0	0	-	0	0	-	0	0	-
Other Oils for Petrochemical Feedstock Use	109	0	109	0	0	-	0	109	-109
Special Naphthas	0	0	-	10	0	10	0	10	-10
Lubricants	591	0	591	118	0	118	0	709	-709
Waxes	0	0	-	0	0	-	0	0	-
Marketable Petroleum Coke	703	0	703	232	820	-588	634	80	553
Asphalt and Road Oil	1,064	0	1,064	383	1,057	-674	424	706	-281
Miscellaneous Products	0	0	-	0	10	-10	10	0	10
Total	123,391	17,187	106,204	110,012	151,137	-41,125	112,512	162,481	-49,970

See footnotes at end of table.

Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail ¹ Between PAD Districts, June 2019
(Thousand Barrels) — Continued

Commodity	PAD District 4			PAD District 5		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	6,131	27,628	-21,497	5,333	0	5,333
Petroleum Products	7,771	18,920	-11,150	12,280	75	12,205
Natural Gas Liquids	4,389	14,808	-10,419	686	0	686
Ethane	564	3,264	-2,700	0	0	—
Propane	2,106	5,978	-3,872	297	0	297
Normal Butane	917	2,424	-1,507	324	0	324
Isobutane	337	1,142	-805	65	0	65
Natural Gasoline	465	2,000	-1,535	0	0	—
Refinery Olefins	0	0	—	0	0	—
Ethylene	—	—	—	—	—	—
Propylene	0	0	—	0	0	—
Normal Butylene	0	0	—	0	0	—
Isobutylene	0	0	—	0	0	—
Unfinished Oils	0	0	—	0	0	—
Motor Gasoline Blending Components	1,598	1,088	510	4,390	0	4,390
Reformulated - RBOB	—	—	—	2,155	0	2,155
Conventional	1,598	1,088	510	2,235	0	2,235
CBOB	1,598	1,088	510	2,235	0	2,235
GTAB	—	—	—	—	—	—
Other	0	0	—	0	0	—
Renewable Fuels	167	0	167	5,168	0	5,168
Fuel Ethanol	167	0	167	4,760	0	4,760
Renewable Diesel Fuel ²	0	0	—	408	0	408
Other Renewable Fuels	—	—	—	0	0	—
Finished Motor Gasoline	244	728	-484	358	0	358
Reformulated	—	—	—	0	0	—
Reformulated Blended with Fuel Ethanol	—	—	—	0	0	—
Reformulated Other	—	—	—	—	—	—
Conventional	244	728	-484	358	0	358
Conventional Blended with Fuel Ethanol	0	0	—	0	0	—
Ed55 and Lower	0	0	—	0	0	—
Greater than Ed55	0	0	—	0	0	—
Conventional Other	244	728	-484	358	0	358
Finished Aviation Gasoline	0	0	—	0	0	—
Kerosene-Type Jet Fuel	807	22	785	207	0	207
Kerosene	0	0	—	0	0	—
Distillate Fuel Oil	546	844	-298	763	0	763
15 ppm sulfur and under	546	844	-298	763	0	763
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—
Greater than 500 ppm sulfur	0	0	—	0	0	—
Residual Fuel Oil	0	0	—	0	0	—
Petrochemical Feedstocks	—	—	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—
Special Naphthas	—	—	—	0	0	—
Lubricants	0	0	—	0	0	—
Waxes	0	0	—	0	0	—
Marketable Petroleum Coke	0	644	-644	50	75	-25
Asphalt and Road Oil	20	786	-766	658	0	658
Miscellaneous Products	0	0	—	0	0	—
Total	13,902	46,549	-32,647	17,613	75	17,538

— = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil include movements by rail. Movements of other products are by pipeline, tanker and barge only.

² Renewable diesel fuel includes biodiesel and other renewable diesel.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Appendix A

District Descriptions and Maps

The following are the Refining Districts which make up the Petroleum Administration for Defense (PAD) Districts.

PAD District I

East Coast: The District of Columbia and the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, and the following counties of the State of New York: Cayuga, Tompkins, Chemung, and all counties east and north thereof. Also the following counties in the State of Pennsylvania: Bradford, Sullivan, Columbia, Montour, Northumberland, Dauphin, York, and all counties east thereof.

Appalachian No. 1: The State of West Virginia and those parts of the States of Pennsylvania and New York not included in the East Coast District.

Sub-PAD District I

New England: The States of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

Central Atlantic: The District of Columbia and the States of Delaware, Maryland, New Jersey, New York, and Pennsylvania.

Lower Atlantic: The States of Florida, Georgia, North Carolina, South Carolina, Virginia and West Virginia.

PAD District II

Indiana-Illinois-Kentucky: The States of Indiana, Illinois, Kentucky, Tennessee, Michigan, and Ohio.

Minnesota-Wisconsin-North and South Dakota: The States of Minnesota, Wisconsin, North Dakota, and South Dakota.

Oklahoma-Kansas-Missouri: The States of Oklahoma, Kansas, Missouri, Nebraska, and Iowa.

PAD District III

Texas Inland: The State of Texas except the Texas Gulf Coast District.

Texas Gulf Coast: The following counties of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Brazoria, Wharton, Matagorda, Jackson, Victoria, Calhoun, Refugio, Aransas, San Patricio, Nueces, Kleberg, Kenedy, Willacy, and Cameron.

Louisiana Gulf Coast: The following Parishes of the State of Louisiana: Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Saint Helena, Tangipahoa, Washington, and all Parishes south thereof. Also the following counties of the State of Mississippi: Pearl River, Stone, George, Hancock, Harrison, and Jackson. Also the following counties of the State of Alabama: Mobile and Baldwin.

North Louisiana-Arkansas: The State of Arkansas and those parts of the States of Louisiana, Mississippi, and Alabama not included in the Louisiana Gulf Coast District.

New Mexico: The State of New Mexico.

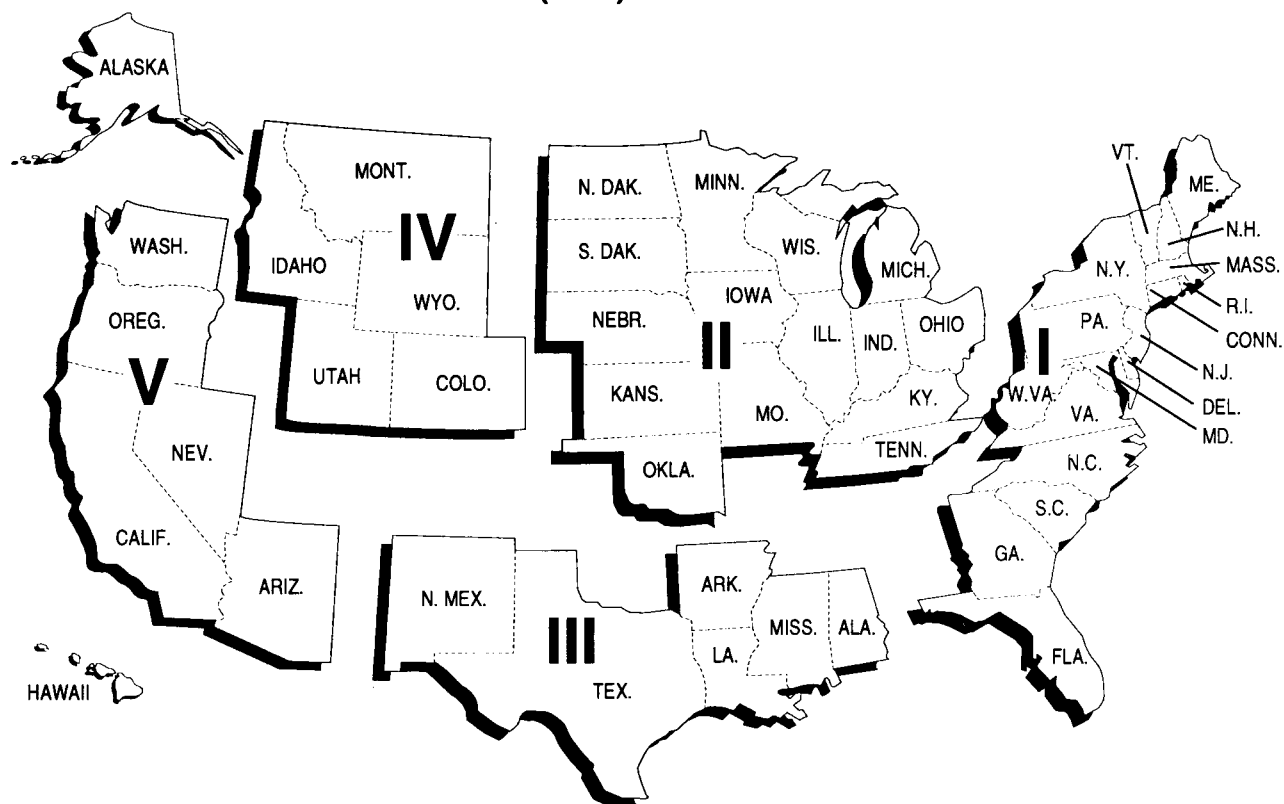
PAD District IV

Rocky Mountain: The States of Montana, Idaho, Wyoming, Utah, and Colorado.

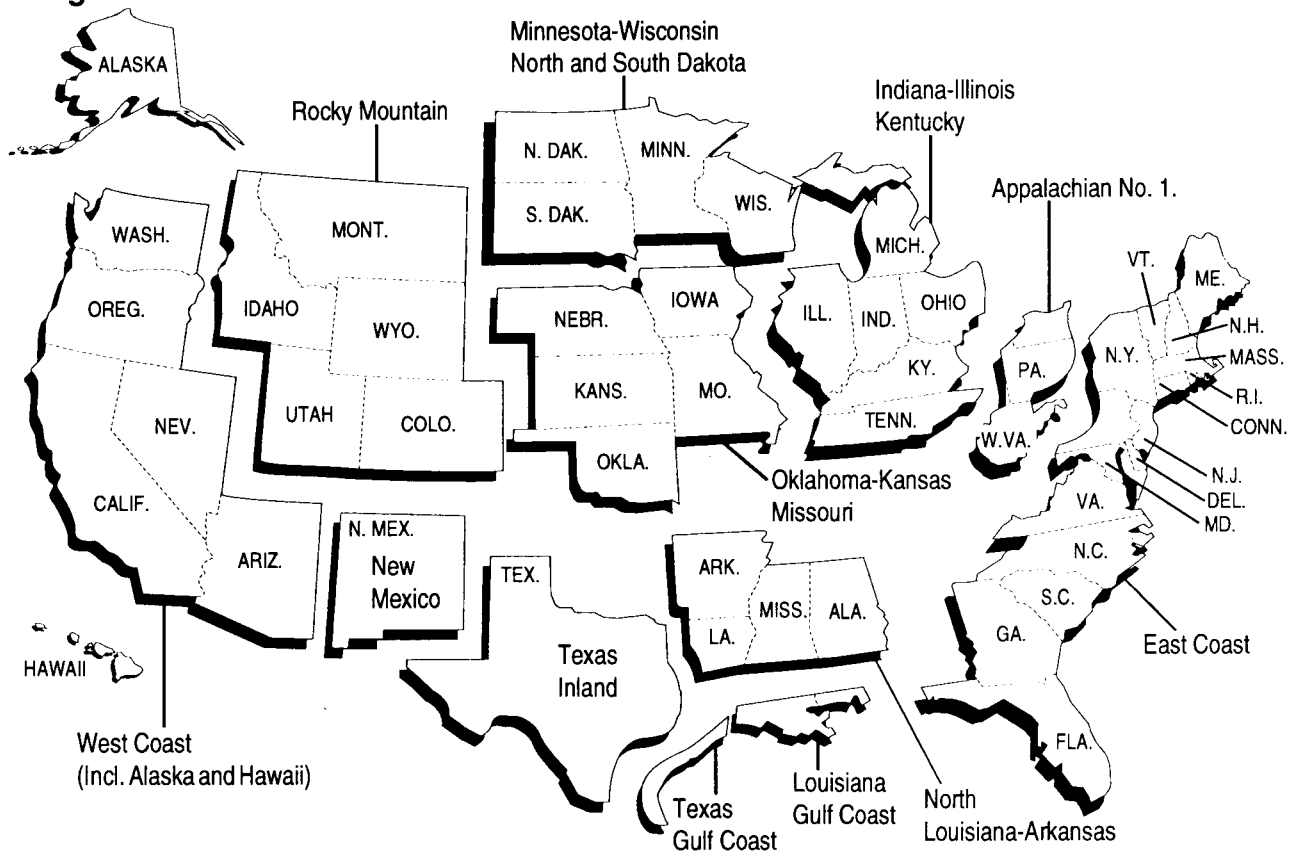
PAD District V

West Coast: The States of Washington, Oregon, California, Nevada, Arizona, Alaska, and Hawaii.

Petroleum Administration for Defense (PAD) Districts



Refining Districts



PSM Explanatory Notes

Preface

The *Petroleum Supply Monthly (PSM)* is the monthly component of a series of three publications concerning the supply and disposition of crude oil and petroleum products produced by the Petroleum Division of the Energy Information Administration (EIA). The other two components are the *Weekly Petroleum Status Report (WPSR)* and the *Petroleum Supply Annual (PSA)*. Together these publications present a comprehensive snapshot of petroleum supply data on a weekly, monthly and yearly basis.

Data presented in the PSM describe the supply and disposition of petroleum products in the United States and major U.S. geographic regions. The data series describe production, imports and exports, inter-Petroleum Administration for Defense (PAD) District movements, and inventories by the primary suppliers of petroleum products in the United States (50 States and the District of Columbia). The reporting universe includes those petroleum sectors in primary supply: petroleum refiners, motor gasoline blenders, operators of natural gas processing plants and fractionators, inter-PAD District transporters, importers, and major inventory holders of petroleum products and crude oil. When aggregated, the data reported by these sectors approximately represent the consumption of petroleum products in the United States.

The PSM tables present statistics for the most current month available as well as year-to-date. In most cases, the statistics are presented for several geographic areas - the United States (50 States and the District of Columbia), five PAD Districts, and 12 Refining Districts. At the U.S. and PAD District level, the total volume and the daily rate of activities are presented. The statistics are developed from monthly survey forms submitted by respondents to the EIA and from data provided from other sources.

Final statistics for the data series published in the *PSM* are published in the *PSA*. The *PSA* is published approximately five months after the end of the report year.

Appendix B. Explanatory Notes

1. Overview

A. The Energy Information Administration's Quality Guidelines

The data contained in the *Petroleum Supply Monthly (PSM)* are subject to separate information quality guidelines issued by the Office of Management and Budget (OMB), the Department of Energy (DOE), and Energy Information Administration (EIA). With available resources, EIA continually works to improve its systems in order to provide high quality information needed by public and private policymakers and decision makers. EIA has performance standards to ensure the quality (i.e., objectivity, utility, and integrity) of information it disseminates to the public. Quality is ensured and maximized at levels appropriate to the nature and timeliness of the disseminated information.

B. Concepts of Product Supply and Demand

Petroleum supply estimates contained in the PSM are often interpreted as an approximation of petroleum demand measured as product supplied. Product supplied is often called “implied” demand because it is a measure of demand that is implied by disappearance of petroleum products from facilities and activities in the “primary” supply chain. Facilities and activities in the primary supply chain include refineries and blending terminals, gas processing plants and fractionators, oxygenate producers, biodiesel producers, imports, exports, bulk storage terminals, and pipelines. Total product supplied in the PSM at the U.S. level is equal to the sum of field production, plus refinery and blender net production, plus renewable fuels, and oxygenate plant net production, plus imports, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports. Net receipts are added as a component of supply at the PAD District level. Crude oil product supplied is normally zero because crude oil is processed in refineries and rarely, if ever, used directly.

The secondary system is that portion of the overall distribution network that falls between producers and end-users. Product typically flows in bulk from the primary supply system into the secondary system before delivery in small quantities to consumers (the tertiary system). The secondary system includes storage at bulk plants; at retail motor fuel outlets, such as service stations, truck stops, and convenience stores; and at retail fuel oil dealers. Bulk plants are wholesale storage facilities that have less than 50,000 barrels of storage capacity and, by definition, receive product only by tank car or truck, not by barge, tanker, or pipeline. Tertiary inventories are held by end users and include fuel in vehicle tanks, heating oil in residential tanks, fuel oil held by utilities, jet fuel stored in facilities operated by end users, and certain proprietary storage of raw materials (e.g. propane) for the chemical industry.

Data users sometimes consider demand as sales to the ultimate consumer or as the actual consumption of the product. Since there may be time delays between the movement of product into the primary market and its ultimate purchase or consumption, these definitions of demand require data on changes in secondary and/or tertiary stocks or the assumption that these values either remain constant or are small

compared to primary supply. The most recent study of secondary stocks was done by the National Petroleum Council in 1989. This study revealed that secondary distillate stocks were equal to about 6.9 percent of distillate stocks and 6.7 percent of distillate storage capacity.

C. Components of Supply and Disposition

The detailed statistics tables in the PSM provide complete supply and disposition information for the current month and year to date. The tables are organized to locate National and Petroleum Administration for Defense (PAD) District supply and disposition data at the front followed by tables that contain detailed information on supply and disposition. These include tables on crude oil and petroleum product production, import/export data, stocks information, and lastly, data on crude oil and petroleum product movements. To assist in the interpretation of these tables, the following discussion of supply, disposition, and ending stocks as shown in Tables 1– 25 is provided. The categories and products are defined in the EIA Glossary.

(1.) Supply

a. Field Production - Total Field Production is the sum of crude oil production and natural gas plant liquids and liquefied refinery gases production.

Crude oil production is an estimate based on data received from State conservation agencies and the Mineral Management Service of the U.S. Department of the Interior. Refer to “Domestic Crude Oil Production” in Section 2C (1) for further details.

Field production of natural gas plant liquids is reported on Form EIA-816 and published on a net basis (i.e., production minus inputs).

b. Renewable Fuels and Oxygenate Plant Net Production - Renewable Fuels and Oxygenate Plant Net Production are reported on Forms EIA-819 and EIA-22M. Production includes oxygenates (fuel ethanol, ETBE, MTBE, and other oxygenates) plus negative production of pentanes plus, finished motor gasoline, and motor gasoline blending components added to fuel ethanol as denaturants as well as biodiesel. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reported as input during the same month.

c. Refinery and Blender Net Production – Refinery and Blender Net Production is reported on Form EIA-810 and EIA-815. Refinery and Blender Net Production equals refinery and blenders production minus refinery and blender net inputs. Negative production of finished petroleum products will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the

same month.

d. Imports - Imports include receipts of goods into the 50 States and the District of Columbia from U.S. possessions and territories or from foreign countries.

e. Net Receipts – Net Receipts data are included in tables containing PAD District-level data to account for inter-PAD District movements of crude oil and petroleum products. Net receipts for a PAD District are calculated by subtracting shipments out of the PAD District from receipts into the PAD District. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, and Barge, and Rail between PAD Districts are shown in Table 60.

f. Adjustments – This column includes adjustment quantities for crude oil, fuel ethanol, motor gasoline blending components, biodiesel (included in “Renewable Fuels Except Fuel Ethanol”) and distillate fuel oil. Adjustment quantities are derived either to balance supply and disposition for selected products or to reclassify one product to another product. Product supplied is the balancing item for most products and is interpreted as an implied measure of petroleum demand. Adjustments are used in cases where it does not make sense to interpret the balancing item as demand. Reclassifications reported in the adjustments column may be implied by the supply and disposition balance or reported on surveys. Recall that supply at the U.S. level is equal to the sum of field production, renewable fuels and oxygenate plant net production, refinery and blender net production, imports, and adjustments. Disposition at the U.S. level is equal to the sum of stock change, refinery and blender net inputs, exports, and products supplied. At the PAD District level, supply components include net receipts equal to gross receipts from other PAD Districts minus gross shipments to other PAD Districts. In every case, supply must equal disposition. Applicable components of supply and disposition vary depending on the product or product group. Unless otherwise noted in Section 2C, adjustment calculations that balance supply and disposition equal disposition minus supply for the U.S. and for each PAD District.

(2.) Disposition

a. Stock Change – Stock Change is calculated as the difference between the current month Ending Stocks column and the Ending Stocks column in the prior month’s publication. A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.

b. Refinery and Blender Net Inputs – Refinery and Blender Net Inputs are inputs of crude oil and intermediate materials (unfinished oils, motor and aviation gasoline blending components, liquefied petroleum gases, pentanes plus, hydrogen, oxygenates, renewable fuels, and other hydrocarbons) that are processed at refineries or blended at terminals to produce finished petroleum products.

Crude oil input represents total crude oil (domestic and foreign) input to atmospheric crude oil distillation units and other refinery processing units (e.g. vacuum distillation units).

Inputs of natural gas plant liquids are refinery input of natural gas liquids received from natural gas plants for blending and processing. Published inputs of natural gas plant liquids are reported on a gross basis.

Inputs of unfinished oils, motor gasoline blending components, and aviation gasoline blending components are published on a net basis (i.e., refinery input minus refinery production). Negative inputs of unfinished oils and motor and aviation gasoline blending components will occur when the amount of a product produced during the month is greater than the amount of that same product that is input or reclassified to become another product during the same month.

c. Exports - Exports include shipments from the 50 States and the District of Columbia to Puerto Rico, the Virgin Islands, other U.S. possessions and territories and to foreign countries.

d. Products Supplied - Products supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, (plus net receipts on a PAD District basis), plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Product supplied value indicates those quantities of petroleum products supplied for domestic consumption. Occasionally, the result for a product is negative because total disposition of the product exceeds total supply. Negative product supplied may occur for a number of reasons: (1) product reclassification has not been reported; (2) data were misreported or reported late; (3) in the case of calculations on a PAD District basis, the figure for net receipts was inaccurate because the coverage of inter-PAD movements was incomplete; and (4) products such as gasoline blending components and unfinished oils have entered the primary supply channels with their production not having been reported, e.g., streams returned to refineries from petrochemical plants.

Beginning with data for January 2010, product supplied for crude oil is assumed equal to zero. Prior to January 1983, crude oil burned on leases and by pipelines as fuel was reported as either distillate or residual fuel oil and was included in product supplied for these products. From January 1983 through December 2009, crude oil product supplied was equal to crude oil used directly as reported on Form EIA-813 “Monthly Crude Oil Report.” Reporting of crude oil used directly was discontinued on Form EIA-813 after December 2009.

(3.) Ending Stocks

Ending stocks are primary stocks of crude oil and petroleum products held in storage as of 12 midnight on the last day of the month. Primary stocks include crude oil or petroleum products held in storage at refineries, natural gas processing plants, pipelines, tank farms, and bulk terminals.

Crude oil that is in-transit by water from Alaska and crude oil stored in the Strategic Petroleum Reserve is included. Primary

Crude oil that is in-transit by water from Alaska and crude oil stored in the Strategic Petroleum Reserve is included. Primary Stocks exclude stocks of foreign origin that are held in bonded warehouse storage. Primary stocks of petroleum products also exclude secondary stocks held by dealers and jobbers and tertiary stocks held by consumers. Product stocks held as reserves by federal and state agencies are excluded from primary stock quantities reported by EIA, but quantities held in selected government reserves are provided in Appendix D.

Primary stocks of crude oil included barrels held on producing sites (lease stocks) until June 2016. Primary stocks of crude oil excluded lease stocks beginning with release of PSM data for July 2016 on September 30, 2016. Historical crude oil stocks in Petroleum Navigator were revised beginning with data for January 2005 to exclude lease stocks. Petroleum Navigator data may be accessed from the following locations on the EIA web site.

http://www.eia.gov/dnav/pet/pet_sum_snd_d_nus_mbbbl_m_cur.htm
http://www.eia.gov/dnav/pet/pet_sum_crdsnd_k_m.htm
http://www.eia.gov/dnav/pet/pet_stoc_typ_c_nus_EPC0_mbbbl_m.htm

2. Components - Forms Discussions

The data presented in the PSM include data collected by the EIA on nine monthly petroleum supply surveys, export data obtained from the U. S. Bureau of the Census, and crude production data obtained from State conservation agencies and the Minerals Management Service of the U. S. Department of Interior.

A. Petroleum Supply Reporting System

The nine monthly petroleum supply surveys are part of the Petroleum Supply Reporting System (PSRS). The PSRS tracks the supply and disposition of crude oil, petroleum products, and natural gas liquids in the United States. The PSRS is organized into two data collection subsystems: the Weekly Petroleum Supply Reporting System (WPSRS) and the Monthly Petroleum Supply Reporting System (MPSRS). The WPSRS processes the data from the seven weekly surveys. The MPSRS includes nine monthly surveys and one annual survey. The survey forms that comprise the PSRS are:

1. EIA-800, "Weekly Refinery Report,"
2. EIA-802, "Weekly Product Pipeline Report,"
3. EIA-803, "Weekly Crude Oil Stocks Report,"
4. EIA-804, "Weekly Imports Report,"
5. EIA-805, "Weekly Terminal Blender Report,"
6. EIA-809, "Weekly Oxygenate Report,"
8. EIA-22M, "Monthly Biodiesel Production Survey,"
9. EIA-810, "Monthly Refinery Report,"
10. EIA-812, "Monthly Product Pipeline Report,"
11. EIA-813, "Monthly Crude Oil Report,"
12. EIA-814, "Monthly Imports Report,"
13. EIA-815, "Monthly Terminal Blender Report,"
14. EIA-816, "Monthly Natural Gas Liquids Report"
15. EIA-817, "Monthly Tanker and Barge Movement Report"
16. EIA-819, "Monthly Oxygenate Report"

17. EIA-820, "Annual Refinery Report."

Both weekly and monthly surveys are administered at six key points along the petroleum production and supply chain including refineries, fractionators, natural gas processing plants, bulk product storage and blending terminals, crude oil and product pipelines, crude oil stock holders, importers, and renewable fuel (biodiesel and fuel ethanol) and oxygenate producing plants. Monthly surveys also include inter-PAD District movements by pipelines, tankers, and barges. Weekly surveys do not capture petroleum movements. Respondents reporting on weekly surveys are sampled from among the respondents reporting on monthly surveys.

Annual U.S. refinery capacity data are collected on the Form EIA-820, "Annual Refinery Report." The EIA-820 data are published in the annual "Refinery Capacity Report."

B. Monthly Supply Survey Description and Methodology

(1.) Description of Surveys Forms

Copies of the survey forms and instructions can be found at: http://www.eia.doe.gov/oil_gas/petroleum/survey_forms/pet_survey_forms.html

The Form EIA-22M "Monthly Biodiesel Production Survey" collects data on biodiesel plant location, operating status, annual production capacity, monthly biodiesel and co-product production, stocks, input of feedstocks, alcohol, and catalysts, and biodiesel sales.

The Form EIA-810, "Monthly Refinery Report," collects data on refinery input and capacity, sulfur content and API gravity of crude oil, and data on supply (beginning stocks, receipts, and production) and disposition (inputs, shipments, fuel use and losses, and ending stocks) of crude oil and refined products. Working and shell storage capacity for selected products is collected on a semi-annual basis.

The Form EIA-812, "Monthly Product Pipeline Report," collects data on end-of-month stocks and movements of petroleum products transported by pipeline. Intermediate movements for pipeline systems operating in more than two PAD Districts are included. Product pipeline tank storage capacity for selected products is collected on a semi-annual basis.

The Form EIA-813, "Monthly Crude Oil Report," collects data on end-of-month stock levels of crude oil held at pipeline and tank farms (associated with the pipelines) and terminals operated by the reporting company. Also, crude oil consumed by pipelines and on leases as pump fuel, boiler fuel, etc., is reported. Data are reported on a PAD District basis. Total Alaskan crude oil stocks in-transit by water (including stocks held at transshipment terminals between Alaska and the continental United States) to the 50 States, the District of Columbia, Puerto Rico, and the Virgin Islands are also reported by the transporting company having custody of the stocks. Inter-PAD District movements of crude oil by pipeline are collected by the shipping and receiving PAD District. Intermediate movements for pipeline systems operating in more than two PAD Districts

are not included. Crude oil storage capacity of tank farms is collected on a semi-annual basis.

The Form EIA-814, “Monthly Imports Report,” collects data on imports of crude oil and petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands, and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), and (3) from Puerto Rico, the Virgin Islands, and other U.S. possessions into the 50 States and the District of Columbia. Imports into Foreign Trade Zones located in the 50 States and the District of Columbia are considered imports into the 50 States and the District of Columbia. The type of commodity, port of entry, country of origin, quantity (thousand barrels), sulfur percent by weight, API gravity, and name and location of the processing or storage facility are reported. Sulfur percent by weight is requested for crude oil, crude oil burned as fuel, and residual fuel oil only. API gravity is requested for crude oil only. The name and location of the processing or storage facility is requested for crude oil, unfinished oils, and gasoline blending components only.

The Form EIA-815, “Monthly Terminal Blender Report,” collects data on the operations of all bulk terminals located in the 50 States, District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U. S. possessions. Beginning and end-of-month stocks, receipts, inputs, production, shipments, and fuel use and losses during the month are collected from operators of terminals. Working and shell storage capacity is collected on a semi-annual basis.

The Form EIA-816, “Monthly Natural Gas Liquids Report,” collects data on the operations of natural gas processing plants and fractionators. Beginning and end-of-month stocks, receipts, inputs, production, shipments, and plant fuel use and losses during the month are collected from operators of natural gas processing plants. End-of-month stocks are collected from fractionators.

The Form EIA-817, “Monthly Tanker and Barge Movement Report,” collects data on the movements of crude oil and petroleum products between PAD Districts. Data are reported by shipping and receiving PAD District and sub-PAD District. Shipments to and from the Panama Canal are also included if the shipment was delivered to the Canal.

The Form EIA-819, “Monthly Oxygenate Report” collects facility-level data on oxygenate inputs, production, gasoline blending at ethanol plants, and end-of-month stocks. Data on end-of-month stocks are reported on a custody basis regardless of ownership. Fuel ethanol storage capacity is collected on a semi-annual basis.

(2.) Frame

EIA maintains complete lists of respondents to its monthly surveys. Each survey has a list of companies and facilities required to submit petroleum activity data. This list is known as the survey frame. Frame maintenance procedures are used to monitor the status of petroleum companies and facilities

currently contained in each survey frame as well as to identify new members to be added to the frame. As a result, all known petroleum supply organizations falling within the definition of “Who Must Submit” participate in the survey.

The activities for frames maintenance are conducted on an ongoing basis. Monthly frames maintenance procedures focus on examining industry periodicals that report changes in status (births, deaths, sales, mergers, and acquisitions) of petroleum facilities producing, transporting, importing, and/or storing crude oil and petroleum products. Augmenting these sources are articles in newspapers, notices from respondents, and information received from survey systems operated by other offices. Survey managers review these sources regularly to monitor changes in company operations and to develop lists of potential respondents. These activities assure coverage of the reporting universe and maintain accurate facility information on addresses and ownership.

Respondents to Form EIA-22M “Monthly Biodiesel Production Survey” include operators of plants that produce biodiesel meeting ASTM D 6751-07B specifications and used for commercial purposes.

Respondents to Form EIA-810, “Monthly Refinery Report” include operators of all operating and idle petroleum refineries located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam and other U.S. possessions.

Respondents to Form EIA-812, “Monthly Product Pipeline Report” include all product pipeline companies that carry petroleum products (including interstate, intrastate, and intra-company pipelines) in the 50 States and the District of Columbia.

Respondents to Form EIA-813, “Monthly Crude Oil Report” include all companies which carry or store 1,000 barrels or more of crude oil. Included in this survey are gathering and trunk pipeline companies (including interstate, intrastate, and intra-company pipelines), crude oil tank farm operators, and companies transporting Alaskan crude oil by water (to U.S. ports) in the 50 States and the District of Columbia.

Respondents to Form EIA-814, “Monthly Imports Report” include each importer of record (or Ultimate consignee in some situations regarding Canadian imports) that import crude oil or petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), (3) into Foreign Trade Zones located in the 50 States and the District of Columbia and (4) from Puerto Rico, the Virgin Islands and other U.S. possessions into the 50 States and the District of Columbia. A report is required only if there has been an import during the month unless the importer has been selected as part of a sample to report every month regardless of activity.

Respondents to Form EIA-815, “Monthly Terminal Blender Report” include operators of all bulk terminals located in the 50 States, District of Columbia, Puerto Rico, the Virgin Islands,

Guam, and other U. S. possessions must report. A bulk terminal is primarily used for storage, marketing, and often blending of petroleum products and has a total bulk storage capacity of 50,000 barrels or more, and/or receives petroleum products by tanker, barge, or pipeline. Bulk terminal facilities associated with a product pipeline are included.

Respondents to Form EIA-816, “Monthly Natural Gas Liquids Report” include operators of all facilities that extract liquid hydrocarbons from a natural gas stream (natural gas processing plant) and/or separate a liquid hydrocarbon stream into its component products (fractionator).

Respondents to Form EIA-817, “Monthly Tanker and Barge Movement Report” include all companies that have custody of crude oil or petroleum products transported by tanker or barge between Petroleum Administration for Defense Districts and all companies that have custody of crude oil or petroleum products originating from a PAD District and transported to the Panama Canal with the intent that the crude oil or petroleum products be further transported to another PAD District.

For purposes of this report, custody is defined as physical possession of crude oil or petroleum products on a company-owned tanker or barge. Also, companies that lease vessels or contract for the movement of crude oil or petroleum products on a tanker or barge between PAD Districts are considered to have custody.

Respondents to Form EIA-819, “Monthly Oxygenate Report” include all operators of facilities that produce (manufacture or distill) oxygenates (including MTBE plants, petrochemical plants, and refineries that produce oxygenates as part of their operations located in the 50 States and the District of Columbia.)

(3.) Collection

Survey data for the MPSRS are collected by facsimile, email, Internet using secure file transfer, and electronic transmission. All respondents must submit their data by the 20th calendar day following the end of the report month. Receipt of the reports is monitored using an automated respondent mailing list. Telephone follow-up calls are made to nonrespondents prior to the publication deadline. Respondents who are chronically late (i.e., 3 consecutive months) are notified by EIA by certified letter.

(4.) Processing and Micro Editing

Upon receipt, all reported data are transformed into a standard format and sent through a log-in and prescreening process to validate respondent control information and resolve any discrepancies. The data are then processed using generalized edit and imputation procedures. Automated editing procedures check current data for consistency with past data and for internal consistency (e.g., totals equal to the sums of the parts). After the edit failures are resolved and imputation performed for nonrespondents, preliminary tables are produced and used to identify anomalies. These tables show U.S. and PAD District estimates for the current month and the prior 4 years. Anomalies

result in further review of respondent data which in turn may result in additional flagged data and imputation.

(5.) Estimation and Imputation

The nine monthly supply surveys are census surveys. As such, the estimates using these data are the sum of the edited, reported data. Imputation is performed for companies that fail to file Forms EIA-22M, 810, 812, 813, 815, 816, and 819. For these companies, previous monthly values and values reported on the weekly survey forms are used if available. Data for nonrespondents to the Forms EIA-814 and 817 are not imputed because respondent-level data for these surveys are highly variable.

Adjustments are made to aggregate data from time to time. For example, unusual industry conditions, including fuel transitions, business practice shifts, or hurricane dislocations, may generate reporting anomalies and require adjustments. Measurement error and frame deficiencies may occasionally result in inconsistencies when individual respondent data are aggregated to publication levels and require adjustment. Monthly supply data are reviewed throughout the year and some estimates may be replaced with newly available or resubmitted respondent data in the *Petroleum Supply Annual (PSA)*.

(6.) Macro Editing

Monthly data are compared to weekly data on a regular basis. Discrepancies between weekly and monthly data are documented and respondents are called when discrepancies are either large (usually over 300 thousand barrels) or consistent (e.g., weekly data are always lower than monthly data). In addition, a comparison of the data collected on the PSRS with other similar data series from sources outside of the EIA is performed on an ongoing basis. Results of selected data comparisons are published once a year in the feature article, “Comparison of Independent Statistics on Petroleum Supply.” Additional comparisons are made between survey data and model results. Data reported in the Petroleum Supply Monthly and Petroleum Supply Annual are routinely imputed to correct for cases where comparison with other data suggests errors in survey data.

(7.) Dissemination

The *PSM* data are normally released within 60 days of the close of the reference month. The *PSM* is available on the web at:

<http://www.eia.gov/petroleum/supply/monthly/>

Much of the *PSM* data are available on the web product, Petroleum Navigator. Petroleum Navigator provides an interface for accessing a comprehensive set of EIA’s petroleum data. Features include: downloadable spreadsheets containing complete data history, data tables which “pivot” to present different perspectives, and selection boxes to easily change the product, area, process, period, and unit of measure. Petroleum Navigator can be accessed at: <http://www.eia.gov/petroleum/data.cfm>

C. Derived Data

Due to the time constraints in publishing monthly petroleum supply statistics and the desire to reduce industry response burden, some of the statistics published in the PSM are obtained from sources other than the monthly supply surveys. These other sources include models to data and data from supplemental sources such as the Bureau of the Census.

(1.) Domestic Crude Oil Production

The interim estimate of U.S., PAD District, and state oil production for the current reference month, published in Tables 1 through 26 of the PSM, are based on:

- (a.) crude oil production data from state government agencies and the Department of the Interior, Bureau of Safety and Environmental Enforcement;
- (b.) crude oil production data reported on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report." For some states, EIA uses current reported data from the state (chiefly Alaska). For the states of Arkansas, California, Colorado, Kansas, Louisiana, Montana, New Mexico, North Dakota, Ohio, Oklahoma, Pennsylvania, Texas, Utah, West Virginia, Wyoming, and the Federal Gulf of Mexico, EIA calculates an estimate by modeling the relationship between final state-level data from DrillingInfo, a third-party vendor of well-level data collected by state agencies, and data reported on the EIA-914 survey using weighted least squares (WLS) linear regression. Additional explanation of the WLS estimation methodology is available. Estimates have to be made for crude oil production because complete and correct data from states may take from several months to over two years.
- (c.) first purchase data reported on Form EIA-182 "Domestic Crude Oil First Purchase Report." For the remaining states and areas (Alabama, Arizona, Federal Pacific Offshore, Florida, Idaho, Illinois, Indiana, Kentucky, Maryland, Michigan, Mississippi, Missouri, Nebraska, Nevada, New York, Oregon, South Dakota, Tennessee, and Virginia) EIA calculates an estimate by using the average lagged ratio (ALR) of the state reported data to EIA-182 data, applied to the current EIA-182 data. Additional explanation of the ALR estimation methodology is available.

State-level production estimates are published in Table 26, "Production of Crude Oil by PAD District and State." Table 26 contains estimates for crude oil production for state and federal offshore areas reported by state agencies and the Bureau of Safety and Environmental Enforcement or estimated by EIA using the ALR or WLS methods discussed above. Every month, the monthly crude oil production estimates are updated in Table 26 of the Petroleum Supply Monthly (<http://www.eia.gov/petroleum/supply/monthly/>) using reports from state agencies and the Bureau of Safety and Environmental Enforcement. The estimates are reported in the Petroleum

Navigator and the Petroleum Supply Monthly roughly 60 days after the production month.

(2.) Exports

The U.S. Bureau of the Census compiles the official U.S. export statistics. Exporters are required to file a "Shipper's Export Declaration Document" with the U.S. Census Bureau. Each month the EIA receives aggregated export statistics from the U.S. Bureau of the Census (EM-522 and EM-594). Census export statistics used in the PSM reflect both government and non-governmental exports of domestic and foreign merchandise from the United States (the 50 States and the District of Columbia) to foreign countries and U.S. possessions, without regard to whether or not the exportation involves a commercial transaction. The following types of transactions are excluded from the statistics:

- Merchandise shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.
- Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.

The country of destination is defined as the country of ultimate destination or the country where the goods are to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. If the shipper does not know the country of ultimate destination, the shipment is credited to the last country to which the shipper knows that the merchandise will be shipped in the same form as it was when exported.

(3.) Movements of crude oil by railroad

The volume of crude oil, ethanol, biodiesel, propane, propylene, normal butane, and isobutane moving by railroad is calculated using several data sources including Carload Waybill Sample (CWS) data from the U.S. Surface Transportation Board (STB), data from the National Energy Board of Canada (NEB), data in EIA's Oil and Gas Supply Module (OGSM) within the National Energy Modeling system (NEMS) for data prior to 2015, the EIA-915 survey starting in January 2015, and an estimation procedure developed by EIA for months in which data these data are not available.

Once the data necessary for calculating rail movements become available, which may take as long as 60 days after the end of a calendar quarter, EIA will revise the estimates made.

Movements of crude oil, ethanol, biodiesel, propane, propylene, normal butane, and isobutane by rail are based on EIA analysis of carload data from the STB CWS. Additional data from the NEB, OGSM, and the EIA-915 are used for estimating factors for converting carloads to barrels of crude oil. Carloads of ethanol, biodiesel, propane, propylene, normal butane, and isobutane are converted to barrels using data from the CWS.

Carload data from the STB are available approximately 60 days after the end of each quarter. For example, carload data for the first quarter of each year are typically available by about June 1. Therefore, recent-month rail movements reported by EIA in the Petroleum Supply Monthly and Petroleum Navigator are modeled based on historical rail movement averages, medians, or correlations of rail movements derived from actual carload data with other regional supply data collected by EIA or other sources including field production, imports, refinery and blender inputs, movements other than rail, exports, and supply adjustments.

Estimates of rail movements are subject to revision on a monthly basis as new, more complete, and more accurate data become available. Monthly revisions will typically affect data available through Petroleum Navigator on the EIA web site for the current year and up to two prior years. To the extent that revisions are needed to data more than 2 years in the past, these revisions will be made once a year at the time when Petroleum Navigator tables are updated with final data for a year from the Petroleum Supply Annual. Petroleum Supply Monthly and Petroleum Supply Annual tables released as PDF files will not be revised.

(4.) Stocks of Crude Oil held on Producing Sites (Lease Stocks)

The adjustment for lease stocks was discontinued beginning with PSM data for July 2016 released on September 30, 2016 because EIA discontinued reporting crude oil stocks held on producing sites (lease stocks). The lease stock adjustment remains in all historical EIA lease stocks data.

This adjustment corrects for incomplete survey coverage of companies that store crude oil on leases. Up until 1983, monthly state government data on lease stocks were substituted for EIA data wherever possible in order to rectify the understatement of lease crude oil stocks. State data were available from three states - Texas, New Mexico, and Montana. To calculate the “lease adjustment,” a comparison between EIA reported data and the state government data was made and the difference added to the EIA data for the respective states.

In 1983, the EIA modified the Form EIA-813 to eliminate state data on crude oil stocks and began collecting crude oil stock data by Petroleum Administration for Defense (PAD) District. With this change, the “lease adjustment” could no longer be calculated on a state basis and was changed to a PAD District level. To adjust for this incomplete coverage, 10,300 thousand barrels of crude oil are added to PAD District 3 stocks and 330 thousand barrels are added to PAD District 4 stocks.

(5.) Trans-Alaska Pipeline System (TAPS) Natural Gas Plant Liquids (NGPL Adjustment)

The TAPS-NGPL adjustment corrects for overstatement of crude oil receipts and input at refineries due to NGPL injection into Alaskan crude oil transported in TAPS. Natural gas

processing plants in Alaska produce substantial volumes of NGPL that are added to crude oil transported through TAPS. Refiners have been unable to separate the volume of NGPL from Alaskan crude oil when reporting crude oil receipts and inputs to EIA. The TAPS-NGPL adjustment subtracts Alaskan NGPL production reported by selected gas processing plant operators from crude oil receipts and inputs reported by refiners. Adjusted NGPL production is added to refinery receipts and inputs of NGPL. The adjusted NGPL barrels are allocated to PAD Districts based on the regional distribution of receipts of Alaskan crude oil. Data most affected by the TAPS-NGPL adjustment are receipts and inputs of crude oil in PAD District 5 and receipts, inputs, and product supplied of butane and pentanes plus also in PAD District 5.

NGPL injections into crude oil transported in the TAPS started in 1987. The TAPS-NGPL adjustment was first applied to revised data reported in the Petroleum Supply Annual (PSA) for 1988.

(6.) Finished Motor Gasoline Adjustment

Adjustment quantities for finished motor gasoline are the sum of motor gasoline blending components, fuel ethanol, and methyl tertiary butyl ether (MTBE) adjustments reclassified to finished motor gasoline. Finished motor gasoline adjustment quantities are assumed to reflect gasoline blending activity that was not reported on surveys.

Note on MTBE Adjustment: The MTBE portion of the gasoline adjustment described in this section was only applied to Petroleum Supply Monthly (PSM) data for 2009. The MTBE portion of the gasoline adjustment was discontinued after further examination of the issue made clear the MTBE adjustment was not helpful in forming an accurate statistical representation of U.S. and regional gasoline supplies. The MTBE adjustment was not applied to gasoline supply and disposition data in years prior to 2009, nor was it applied to revised data for 2009 published in the Petroleum Supply Annual or in years after 2009. This note only applies to MTBE adjustments. MTBE blending that was reported on EIA surveys is reflected in U.S. and regional gasoline supply and disposition data. Other adjustments to gasoline supply and disposition data to account for motor gasoline blending components and fuel ethanol remain as described in this section.

- Adjustment quantities for finished reformulated motor gasoline include adjustments for reformulated blendstock for oxygenate blending (RBOB) plus a percentage of gasoline treated as blendstock (GTAB), “other” motor gasoline blending components, fuel ethanol, and MTBE. The quantity of GTAB and “other” motor gasoline blending components adjustments reclassified to finished reformulated motor gasoline is based on the ratio of finished reformulated motor gasoline net production divided by total finished motor gasoline net production reported on surveys by refiners and blenders in each

PAD District. Motor gasoline blending components adjustments reclassified to finished reformulated motor gasoline are further classified as blended with alcohol (i.e. fuel ethanol), blended with ether (i.e. MTBE), or non-oxygenated during 2009.

Starting with data for January 2010, motor gasoline blending component adjustment quantities were classified only as blended with fuel ethanol and “other”. During 2009, RBOB adjustment quantities were classified based on the product description that included reference to the oxygenate to be blended. Beginning with data for January 2010, all RBOB is reported in one product category without reference to specific oxygenates, and all RBOB adjustment quantities are assumed blended with fuel ethanol. During 2009, adjustment quantities for GTAB and “other” motor gasoline blending components reclassified to finished reformulated gasoline were further classified as blended with ether, blended with alcohol, or non-oxygenated based on the ratio of production of these products in reported survey data. After determining adjustment quantities of motor gasoline blending components reclassified to each type of finished reformulated motor gasoline, portions of the fuel ethanol and MTBE adjustments were reclassified to reformulated motor gasoline. The fuel ethanol quantity reclassified to finished reformulated motor gasoline was determined using the ratio of fuel ethanol blended into finished motor gasoline calculated from fuel ethanol blending data reported on survey forms by PAD District. For example, if the calculated volumetric fuel ethanol blend ratio was 10%, then a quantity of the fuel ethanol adjustment sufficient to make a 10% blend with the available motor gasoline blending components is reclassified to finished reformulated motor gasoline, but the quantity of fuel ethanol cannot exceed the total quantity of the fuel ethanol adjustment. During 2009, a similar process was followed for allocating the MTBE adjustment to reformulated motor gasoline except the blend ratio was assumed to be 12% in all PAD Districts. Starting with data for January 2010, the entire MTBE adjustment quantity is assumed to be blended with finished conventional motor gasoline.

- Adjustment quantities for finished conventional motor gasoline include adjustments for conventional blendstock for oxygenate blending (CBOB) plus the portion of GTAB, “other” motor gasoline blending components, fuel ethanol and MTBE adjustments that were not reclassified to finished reformulated motor gasoline. The total adjustment to finished conventional motor gasoline is further classified as finished conventional gasoline blended with fuel ethanol and “other” finished conventional motor gasoline. The quantity of the finished conventional motor gasoline adjustment reclassified as finished conventional motor gasoline blended with fuel ethanol is determined using the quantity of the fuel ethanol adjustment allocated

to finished conventional motor gasoline and the fuel ethanol blend ratio calculated from fuel ethanol blending reported on surveys by PAD District. For example, if the fuel ethanol blend ratio calculated from survey data was 10% in a PAD District, then the total adjustment quantity of finished conventional motor gasoline in that PAD District would be 10 times the fuel ethanol adjustment quantity allocated to finished conventional gasoline (i.e. the adjustment to finished conventional motor gasoline blended with fuel ethanol includes 10% fuel ethanol and 90% gasoline from the motor gasoline blending components adjustment). The MTBE adjustment allocated to finished conventional motor gasoline is simply added to the adjustment for “other” finished conventional motor gasoline.

- Fuel ethanol adjustment quantities frequently exceed the volume of fuel ethanol needed to achieve a blend ratio implied by blending activity reported by refiners and blenders on surveys when considering only the gasoline barrels available from the motor gasoline blending components adjustment. In this case, “other” finished conventional motor gasoline is reclassified by the adjustment to finished conventional motor gasoline blended with alcohol in order to maintain an ethanol blend ratio equal to the fuel ethanol blend ratio reported by refiners and blenders in each PAD District.

(7.) Motor Gasoline Blending Components Adjustment

Adjustment quantities for motor gasoline blending components at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports and renewable fuels and oxygenate plant net production (i.e. motor gasoline blending components use as denaturant for fuel ethanol production). Adjustment quantities by PAD District equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports, renewable fuels and oxygenate plant net production, and net receipts. Motor gasoline blending components adjustments are calculated for reformulated blendstock for oxygenate blending (RBOB), conventional blendstock for oxygenate blending (CBOB), gasoline treated as blendstock (GTAB), and “other” motor gasoline blending components. Product supplied for motor gasoline blending components is assumed to always equal zero because there is no end-user demand for motor gasoline blending components as anything other than finished motor gasoline. Motor gasoline blending components adjustment quantities are assumed to reflect finished motor gasoline blending implied by the supply and disposition balance but not reported on surveys. Adjustment quantities for motor gasoline blending components are reclassified to finished motor gasoline and added to the finished motor gasoline adjustment.

(8.) Renewable Fuels including Fuel Ethanol Adjustment

Adjustment quantities for renewable fuels (including fuel ethanol) at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum

of renewable fuels and oxygenate plant net production and imports. Calculation of adjustment quantities by PAD District depends on the product. Individual products include fuel ethanol, biomass based diesel fuel (including biodiesel), “other” renewable diesel fuel, and “other” renewable fuels (e.g. bio-jet fuel). Product supplied for renewable fuels (including fuel ethanol) is assumed equal to zero. Adjustments for fuel ethanol and “other” renewable fuels are discussed separately below.

- Fuel ethanol adjustment quantities at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production and imports. There are no survey data available for rail movements of fuel ethanol between PAD Districts, and so allocation of fuel ethanol adjustments to PAD Districts is based on the ratio of fuel ethanol blending reported on surveys in each PAD District divided by fuel ethanol blending reported on surveys for the entire U.S. In this case, Fuel ethanol implied net receipts are calculated for each PAD District as the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production, imports, and adjustments. Fuel ethanol implied net receipts are the balancing item between total supply and disposition in each PAD District. Fuel ethanol adjustment quantities are assumed to reflect blending of fuel ethanol into finished motor gasoline that is implied by the available supply of fuel ethanol but not reported on surveys. Fuel ethanol adjustment volumes are reclassified to finished reformulated motor gasoline and finished conventional motor gasoline through finished motor gasoline adjustments.

- The product category called “renewable fuels except fuel ethanol” includes biomass-based diesel fuel (including biodiesel), “other” renewable diesel fuel, and “other” renewable fuels (e.g. bio-jet fuel). For PSM data prior to January 2012, renewable fuels except fuel ethanol adjustment quantities at the U.S. and PAD District levels were calculated as the sum of stock change, refinery and blender net input, and exports minus imports. Data for production of Renewable Fuels except Fuel Ethanol was unavailable and was excluded from Renewable Fuels and Oxygenate Plant Net Production. Therefore the calculation of adjustments to Renewable Fuels except Fuel Ethanol caused production to be included in the adjustment. Similarly, the calculation caused net inter-PAD District movements (i.e. net receipts) by rail and truck to also be included in adjustments to renewable fuels except fuel ethanol.

- Beginning with PSM data for January 2012, production of biodiesel reported on Form EIA-22M was included under the heading of “renewable fuels and oxygenate plant net production” in petroleum

supply and disposition balances for “renewable fuels except fuel ethanol”. As a result, the adjustment for “renewable fuels except fuel ethanol” no longer includes production of biodiesel. This change will also be made to revised monthly data for January-December 2011 when the 2011 Petroleum Supply Annual is released.

- Biodiesel adjustment quantities at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production and imports. There are no survey data available for rail movements of biodiesel between PAD Districts, and so allocation of fuel biodiesel adjustments to PAD Districts is based on the ratio of biomass-based diesel blending reported on surveys in each PAD District divided by biomass-based diesel fuel blending reported on surveys for the entire U.S. Biodiesel implied net receipts are calculated for each PAD District as the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production, imports, and adjustments. Biodiesel implied net receipts are the balancing item between total supply and disposition in each PAD District. Biodiesel adjustment quantities are assumed to reflect blending of biodiesel into distillate fuel oil that is implied by the available supply of biodiesel but not reported as input on surveys. Biodiesel adjustment volumes are reclassified to distillate fuel oil (15 ppm sulfur and under) through distillate fuel oil adjustments.

(9.) Distillate Fuel Oil Adjustment

Adjustment quantities for distillate fuel oil show reclassification by pipeline operators of distillate fuel oil with sulfur content of 15 ppm and under to distillate fuel oil with sulfur content greater than 15 ppm to 500 ppm (inclusive). Reclassification may occur when distillate product with sulfur content of 15 ppm and under becomes mixed with products having higher sulfur content during pipeline transportation, storage, or handling. Adjustment quantities are reported by pipeline operators on Form EIA-812 “Monthly Product Pipeline Report.” This adjustment was discontinued after publication of data for December 2010

Beginning with PSM data for January 2012, distillate fuel oil adjustments equal the opposite of biodiesel adjustments described above in section 7. Biodiesel adjustments are added to distillate fuel oil (15 ppm sulfur and under) and to total distillate fuel oil. Distillate fuel oil adjustment quantities are assumed to reflect biodiesel blending activity implied by biodiesel supply and disposition but not reported on surveys. Distillate fuel oil adjustments for biodiesel will also be added to revised data for January-December 2011 when the 2011 Petroleum Supply Annual is released.

(10.) Crude Oil Adjustment

Adjustment quantities for crude oil are derived to balance crude oil supply and disposition. Crude oil product supplied was equal to crude oil used directly as reported on Form EIA-813 “Monthly Crude Oil Report” in data through December 2009. Reporting crude oil used directly was discontinued on Form EIA-813 after collection of data for December 2009. Crude oil product supplied is assumed equal to zero beginning with data for January 2010. Undercounting crude oil imports in survey data is one example of a typical cause of crude oil adjustments. This results in a positive crude oil adjustment because crude oil disposition (i.e. the sum of stock change, refiner inputs, and exports) will exceed available supply (i.e. the sum of field production and imports) due to import undercounting. Crude oil losses are included in crude oil adjustment quantities. The crude oil adjustment was formerly called unaccounted-for crude oil. The name change was effective with data for January 2005.

(11.) Other Hydrocarbon Adjustment

Adjustment quantities for “other” hydrocarbons equal the sum of stock change, refinery and blender net inputs and exports minus imports. “Other” hydrocarbons product supplied is assumed equal to zero. Adjustment quantities account for “other” hydrocarbons produced outside of refineries. There are no movements data collected on surveys for “other” hydrocarbons. Therefore, adjustment quantities include any net receipts of “other” hydrocarbons resulting from inter-PAD District movements.

(12.) Hydrogen Adjustment

Adjustment quantities for hydrogen equal refinery and blender net input of hydrogen. Hydrogen product supplied is assumed equal to zero. Adjustment quantities account for hydrogen supplied to U.S. refineries from non-refinery sources. There are no movements data collected on surveys for hydrogen. Therefore, adjustment quantities at the PAD District level include any net receipts of hydrogen resulting from inter-PAD District movements.

(13.) Oxygenates (excluding fuel ethanol) Adjustment

Adjustment quantities for oxygenates (excluding fuel ethanol) equal the sum of stock change, refinery and blender net inputs, and exports minus the sum of renewable fuels and oxygenate plant net production and imports. Product supplied for oxygenates (excluding fuel ethanol) is assumed equal to zero. Methyl tertiary butyl ether (MTBE) is the single largest component of oxygenates (excluding fuel ethanol).

3. Quality

A. General Discussion

(1.) Response Rates

The response rate is generally 98 to 100 percent. Average response rates for the monthly and weekly surveys are published in the annual PSM article “Accuracy of Petroleum Supply Data.” Chronic nonrespondents and late filing respondents are contacted in writing and reminded of their requirement to report. Companies that file late or fail to file are subject to criminal fines, civil penalties, and other sanctions as provided by Section 13(i) of the Federal Energy Administration (FEA) Act.

(2.) Non-sampling Errors

There are two types of errors usually associated with data produced from a survey; sampling errors and nonsampling errors. Because the estimates for the monthly surveys are based on a complete census of the frame, there is no sampling error in the data presented. The data, however, are subject to non-sampling errors. Non-sampling errors may arise from a number of sources including: (1) the inability to obtain data from all companies in the frame (non-response) and the method used to account for non-response, (2) response errors, (3) differences in the interpretation of questions or definitions, (4) mistakes in recording or coding of the data obtained from respondents, and (5) other errors of collection, response, coverage, processing, and estimation.

(3.) Resubmissions

Throughout the year, EIA accepts data revisions of monthly data. If a revision to a monthly submission is made after the PSM has been published, it is referred to as a resubmission. The final monthly values for the previous year are published in the PSA. These values reflect all PSM resubmissions and other data corrections. The values contained in the PSA are EIA’s most accurate measure of petroleum supply activity.

(4.) Revision Policy

EIA will publish revised monthly crude oil production estimates going back to the Previously published Petroleum Supply Annual every month in the Petroleum Supply Navigator (<http://www.eia.gov/petroleum/supply/monthly/>). Once a year with the release of the Petroleum Supply Annual, EIA will revise up to 10 years of historical production estimates in the Petroleum Supply Navigator.

B. Data Assessment

The principal objective of the PSRS is to provide an accurate picture of petroleum industry activities and of the availability of petroleum products nationwide from primary distribution channels. The PSM preliminary monthly data serve as leading indicators of the final monthly data published in the PSA. The PSM monthly data are not expected to have the same level of accuracy as the final monthly data published in the PSA. However, the preliminary monthly data are expected to exhibit like trends and product flow characteristic of the final monthly data.

To assess the accuracy of monthly statistics, initial monthly estimates published in the PSM are compared with the final monthly aggregates published in the PSA. Although final monthly data are still subject to error, they have been thoroughly reviewed and edited, they reflect all revisions made during the year, and they are considered to be the most accurate data available. The mean absolute percent error provides a measure of the average revisions relative to the aggregates being measured for a variable. The mean absolute percent error for 2007 monthly data was less than 1 percent for 50 of the 66 major petroleum variables analyzed.

4. Provisions Regarding Disclosure of Information

All PSRS survey forms, with the exception of the Form EIA-814, "Monthly Imports Report," have the same general disclosure information statement. The information reported on Form EIA-814 will be considered "public information" and may be publicly released in company or individually identifiable form, and will not be protected from disclosure in identifiable form.

The information reported on Forms EIA-810 through 813, 815 through 817, 819, and 820 will be protected and not disclosed to the

public to the extent that it satisfies the criteria for exemption under the Freedom of Information Act (FOIA), 5 U.S.C. §552, the Department of Energy (DOE) regulations, 10 C.F.R. §1004.11, implementing the FOIA, and the Trade Secrets Act, 18 U.S.C. §1905. The Federal Energy Administration Act requires the EIA to provide company-specific data to other Federal agencies when requested for official use. The information reported on this form may also be made available, upon request, to another DOE component; to any Committee of Congress, the Government Accountability Office, or other Federal agencies authorized by law to receive such information. A court of competent jurisdiction may obtain this information in response to an order. The information may be used for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Disclosure limitation procedures are not applied to the statistical data published from this survey's information. Thus, there may be some statistics that are based on data from fewer than three respondents, or that are dominated by data from one or two large respondents. In these cases, it may be possible for a knowledgeable person to estimate the information reported by a specific respondent.

In addition to the use of the information by EIA for statistical purposes, the information may be made available, upon request, to other Federal agencies authorized by law to receive such information for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Company specific data are also provided to other DOE offices for the purpose of examining specific petroleum operations in the context of emergency response planning and actual emergencies.

Northeast Reserves

Reserves inventories are not considered to be in the commercial sector and are excluded from EIA's commercial motor gasoline and distillate fuel oil supply and disposition statistics, such as those reported in the *Weekly Petroleum Status Report*, *Petroleum Supply Monthly*, and *This Week In Petroleum*.

Northeast Home Heating Oil Reserve classified as ultra-low sulfur distillate (15 parts per million)

Terminal Operator	Location	Thousand Barrels
Buckeye Partners LP	Port Reading, NJ	300
Buckeye Partners LP	Groton, CT	300
Global Companies LLC	Revere, MA	400

Source: U. S. Energy Information Administration

Northeast Regional Refined Petroleum Product Reserve motor gasoline products

Terminal Operator	Location	Thousand Barrels
Kinder Morgan Liq Terminals LLC	Carteret, NJ	200
Buckeye Terminals LLC	Port Reading, NJ	0
Buckeye Terminals LLC	Raritan Bay, NJ	500
Global Companies LLC	Revere, MA	200
South Portland Terminal LLC	South Portland, ME	99

Source: U. S. Energy Information Administration

Other reserves information from the U.S. Department of Energy, Office of Petroleum Reserves can be found at <http://energy.gov/fe/services/petroleum-reserves/>

State of New York's Strategic Fuels Reserve Program

State reserve inventories are also not considered to be in the commercial sector and are excluded from EIA's commercial inventories and are excluded from supply and disposition statistics, such as those reported in the *Weekly Petroleum Status Report*, *Petroleum Supply Monthly*, and *This Week In Petroleum*.

Product	Location	Thousand Barrels
Motor Gasoline Blending Components	NY	87
Fuel Ethanol	NY	10
Distillate Fuel Oil, 15 ppm Sulfur and Under	NY	34

Source: New York State Energy Research & Development Authority

Definitions of Petroleum Products and Other Terms

(Revised May 2010)

Alcohol. The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a hydrocarbon plus a hydroxyl group; $\text{CH}_3\text{-(CH}_2\text{)}_n\text{-OH}$ (e.g., methanol, ethanol, and tertiary butyl alcohol).

Alkylate. The product of an alkylation reaction. It usually refers to the high octane product from alkylation units. This alkylate is used in blending high octane gasoline.

Alkylation. A refining process for chemically combining isobutane with olefin hydrocarbons (e.g., propylene, butylene) through the control of temperature and pressure in the presence of an acid catalyst, usually sulfuric acid or hydrofluoric acid. The product, alkylate, an isoparaffin, has high octane value and is blended with motor and aviation gasoline to improve the antiknock value of the fuel.

All Other Motor Gasoline Blending Components. See Motor Gasoline Blending Components.

API Gravity. An arbitrary scale expressing the gravity or density of liquid petroleum products. The measuring scale is calibrated in terms of degrees API; it may be calculated in terms of the following formula:

$$\text{Degrees API} = \frac{141.5}{\text{sp. gr. @ } 60^\circ \text{ F}} - 131.5$$

The higher the API gravity, the lighter the compound. Light crudes generally exceed 38 degrees API and heavy crudes are commonly labeled as all crudes with an API gravity of 22 degrees or below. Intermediate crudes fall in the range of 22 degrees to 38 degrees API gravity.

Aromatics. Hydrocarbons characterized by unsaturated ring structures of carbon atoms. Commercial petroleum aromatics are benzene, toluene, and xylene (BTX).

Asphalt. A dark-brown-to-black cement-like material containing bitumens as the predominant constituent obtained by petroleum processing; used primarily for road construction. It includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts. Note: The conversion factor for asphalt is 5.5 barrels per short ton.

ASTM. The acronym for the American Society for Testing and Materials.

Atmospheric Crude Oil Distillation. The refining process of separating crude oil components at atmospheric pressure by heating to temperatures of about 600 degrees Fahrenheit to 750 degrees Fahrenheit (depending on the nature of the crude oil and desired products) and subsequent condensing of the fractions by cooling.

Aviation Gasoline (Finished). A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in aviation reciprocating

engines. Fuel specifications are provided in ASTM Specification D 910 and Military Specification MIL-G-5572. Note: Data on blending components are not counted in data on finished aviation gasoline.

Aviation Gasoline Blending Components. Naphthas which will be used for blending or compounding into finished aviation gasoline (e.g., straight-run gasoline, alkylate, reformat, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus. Oxygenates are reported as other hydrocarbons, hydrogen, and oxygenates.

Barrel. A unit of volume equal to 42 U.S. gallons.

Barrels Per Calendar Day. The amount of input that a distillation facility can process under usual operating conditions. The amount is expressed in terms of capacity during a 24-hour period and reduces the maximum processing capability of all units at the facility under continuous operation (see **Barrels per Stream Day**) to account for the following limitations that may delay, interrupt, or slow down production:

the capability of downstream facilities to absorb the output of crude oil processing facilities of a given refinery. No reduction is made when a planned distribution of intermediate streams through other than downstream facilities is part of a refinery's normal operation;

the types and grades of inputs to be processed;

the types and grades of products expected to be manufactured;

the environmental constraints associated with refinery operations;

the reduction of capacity for scheduled downtime due to such conditions as routine inspection, maintenance, repairs, and turnaround; and

the reduction of capacity for unscheduled downtime due to such conditions as mechanical problems, repairs, and slowdowns.

Barrels Per Stream Day. The maximum number of barrels of input that a distillation facility can process within a 24-hour period when running at full capacity under optimal crude and product slate conditions with no allowance for downtime.

Benzene (C_6H_6). An aromatic hydrocarbon present in small proportion in some crude oils and made commercially from petroleum by the catalytic reforming of naphthenes in petroleum naphtha. Also made from coal in the manufacture of coke. Used as a solvent, in manufacturing detergents, synthetic fibers, and petrochemicals and as a component of high-octane gasoline.

Biomass-Based Diesel Fuel. Biodiesel and other renewable diesel fuel or diesel fuel blending components derived from biomass, but excluding renewable diesel fuel coprocessed with petroleum

feedstocks.

Blending Components. See *Motor or Aviation Gasoline Blending Components*.

Blending Plant. A facility which has no refining capability but is either capable of producing finished motor gasoline through mechanical blending or blends oxygenates with motor gasoline.

Bonded Petroleum Imports. Petroleum imported and entered into Customs bonded storage. These imports are not included in the import statistics until they are: (1) withdrawn from storage free of duty for use as fuel for vessels and aircraft engaged in international trade; or (2) withdrawn from storage with duty paid for domestic use.

BTX. The acronym for the commercial petroleum aromatics benzene, toluene, and xylene. See individual categories for definitions.

Bulk Station. A facility used primarily for the storage and/or marketing of petroleum products which has a total bulk storage capacity of less than 50,000 barrels and receives its petroleum products by tank car or truck.

Bulk Terminal. A facility used primarily for the storage and/or marketing of petroleum products which has a total bulk storage capacity of 50,000 barrels or more and/or receives petroleum products by tanker, barge, or pipeline.

Butane (C_4H_{10}). A normally gaseous straight-chain or branch-chain hydrocarbon extracted from natural gas or refinery gas streams. It includes normal butane and refinery-grade butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

Normal Butane (C_4H_{10}). A normally gaseous straight-chain hydrocarbon that is a colorless paraffinic gas which boils at a temperature of 31.1 degrees Fahrenheit and is extracted from natural gas or refinery gas streams.

Refinery-Grade Butane (C_4H_{10}). A refinery-produced stream that is composed predominantly of normal butane and/or isobutane and may also contain propane and/or natural gasoline. These streams may also contain significant levels of olefins and/or fluorides contamination.

Butylene (C_4H_8). An olefinic hydrocarbon recovered from refinery processes.

Captive Refinery Oxygenate Plants. Oxygenate production facilities located within or adjacent to a refinery complex.

Catalytic Cracking. The refining process of breaking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalytic agent and is an effective process for increasing the yield of gasoline from crude oil. Catalytic cracking processes fresh feeds and recycled feeds.

Fresh Feeds. Crude oil or petroleum distillates which are being fed to processing units for the first time.

Recycled Feeds. Feeds that are continuously fed back for additional processing.

Catalytic Hydrocracking. A refining process that uses hydrogen and catalysts with relatively low temperatures and high pressures for converting middle boiling or residual material to high-octane gasoline, reformer charge stock, jet fuel, and/or high grade fuel oil. The process uses one or more catalysts, depending upon product output, and can handle high sulfur feedstocks without prior desulfurization.

Catalytic Hydrotreating. A refining process for treating petroleum fractions from atmospheric or vacuum distillation units (e.g., naphthas, middle distillates, reformer feeds, residual fuel oil, and heavy gas oil) and other petroleum (e.g., cat cracked naphtha, coker naphtha, gas oil, etc.) in the presence of catalysts and substantial quantities of hydrogen. Hydrotreating includes desulfurization, removal of substances (e.g., nitrogen compounds) that deactivate catalysts, conversion of olefins to paraffins to reduce gum formation in gasoline, and other processes to upgrade the quality of the fractions.

Catalytic Reforming. A refining process using controlled heat and pressure with catalysts to rearrange certain hydrocarbon molecules, thereby converting paraffinic and naphthenic type hydrocarbons (e.g., low-octane gasoline boiling range fractions) into petrochemical feedstocks and higher octane stocks suitable for blending into finished gasoline. Catalytic reforming is reported in two categories. They are:

Low Pressure. A processing unit operating at less than 225 pounds per square inch gauge (PSIG) measured at the outlet separator.

High Pressure. A processing unit operating at either equal to or greater than 225 pounds per square inch gauge (PSIG) measured at the outlet separator.

Charge Capacity. The input (feed) capacity of the refinery processing facilities.

Coal. A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time.

Commercial Kerosene-Type Jet Fuel. See *Kerosene-Type Jet Fuel*.

Conventional Blendstock for Oxygenate Blending (CBOB). See *Motor Gasoline Blending Components*.

Conventional Gasoline. See *Motor Gasoline (Finished)*.

Crude Oil. A mixture of hydrocarbons that exists in liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Depending upon the characteristics of the crude stream, it may also include:

Small amounts of hydrocarbons that exist in gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and are subsequently commingled

with the crude stream without being separately measured. Lease condensate recovered as a liquid from natural gas wells in lease or field separation facilities and later mixed into the crude stream is also included;

Small amounts of nonhydrocarbons produced from oil, such as sulfur and various metals;

Drip gases, and liquid hydrocarbons produced from tar sands, oil sands, gilsonite, and oil shale.

Liquids produced at natural gas processing plants are excluded. Crude oil is refined to produce a wide array of petroleum products, including heating oils; gasoline, diesel and jet fuels; lubricants; asphalt; ethane, propane, and butane; and many other products used for their energy or chemical content.

Crude oil is considered as either domestic or foreign, according to the following:

Domestic. Crude oil produced in the United States or from its Outer continental shelf as defined in 43 USC 1331.

Foreign. Crude oil produced outside the United States. Imported Athabasca hydrocarbons (tar sands from Canada) are included.

Crude Oil, Refinery Receipts. Receipts of domestic and foreign crude oil at a refinery. Includes all crude oil in transit except crude oil in transit by pipeline. Foreign crude oil is reported as a receipt only after entry through customs. Crude oil of foreign origin held in bonded storage is excluded.

Crude Oil Losses. Represents the volume of crude oil reported by petroleum refineries as being lost in their operations. These losses are due to spills, contamination, fires, etc. as opposed to refinery processing losses.

Crude Oil Production. The volume of crude oil produced from oil reservoirs during given periods of time. The amount of such production for a given period is measured as volumes delivered from lease storage tanks (i.e., the point of custody transfer) to pipelines, trucks, or other media for transport to refineries or terminals with adjustments for (1) net differences between opening and closing lease inventories, and (2) basic sediment and water (BS&W).

Crude Oil Qualities. Refers to two properties of crude oil, the sulfur content and API gravity, which affect processing complexity and product characteristics.

Delayed Coking. A process by which heavier crude oil fractions can be thermally decomposed under conditions of elevated temperatures and pressure to produce a mixture of lighter oils and petroleum coke. The light oils can be processed further in other refinery units to meet product specifications. The coke can be used either as a fuel or in other applications such as the manufacturing of steel or aluminum.

Desulfurization. The removal of sulfur, as from molten metals, petroleum oil, or flue gases. Petroleum desulfurization is a process that removes sulfur and its compounds from various streams during the refining process. Desulfurization processes include catalytic hydrotreating and other chemical/physical processes such

as adsorption. Desulfurization processes vary based on the type of stream treated (e.g., naphtha, distillate, heavy gas oil, etc.) and the amount of sulfur removed (e.g., sulfur reduction to 10 ppm). See *Catalytic Hydrotreating*.

Disposition. The components of petroleum disposition are stock change, crude oil losses, refinery inputs, exports, and products supplied for domestic consumption.

Distillate Fuel Oil. A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and electric power generation.

No. 1 Distillate. A light petroleum distillate that can be used as either a diesel fuel or a fuel oil.

No. 1 Diesel Fuel. A light distillate fuel oil that has a distillation temperature of 550 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 975. It is used in high speed diesel engines generally operated under frequent speed and load changes, such as those in city buses and similar vehicles. See *No. 1 Distillate*.

No. 1 Fuel Oil. A light distillate fuel oil that has distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used primarily as fuel for portable outdoor stoves and portable outdoor heaters. See *No. 1 Distillate*.

No. 2 Distillate. A petroleum distillate that can be used as either a diesel fuel or a fuel oil.

No. 2 Diesel Fuel. A distillate fuel oil that has a distillation temperature of 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 975. It is used in high-speed diesel engines that are generally operated under uniform speed and load conditions, such as those in railroad locomotives, trucks, and automobiles. See *No. 2 Distillate*.

Low Sulfur No. 2 Diesel Fuel. No. 2 diesel fuel that has a sulfur level no higher than 0.05 percent by weight. It is used primarily in motor vehicle diesel engines for on-highway use.

High Sulfur No. 2 Diesel Fuel. No. 2 diesel fuel that has a sulfur level above 0.05 percent by weight.

No. 2 Fuel Oil (Heating Oil). A distillate fuel oil that has a distillation temperature of 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used in

atomizing type burners for domestic heating or for moderate capacity commercial/industrial burner units. See **No. 2 Distillate**.

No. 4 Fuel. A distillate fuel oil made by blending distillate fuel oil and residual fuel oil stocks. It conforms to ASTM Specification D 396 or Federal Specification VV-F-815C and is used extensively in industrial plants and in commercial burner installations that are not equipped with preheating facilities. It also includes No. 4 diesel fuel used for low- and medium-speed diesel engines and conforms to ASTM Specification D 975.

No. 4 Diesel Fuel. See **No. 4 Fuel**.

No. 4 Fuel Oil. See **No. 4 Fuel**.

Electricity (Purchased). Electricity purchased for refinery operations that is not produced within the refinery complex.

Ending Stocks. Primary stocks of crude oil and petroleum products held in storage as of 12 midnight on the last day of the month. Primary stocks include crude oil or petroleum products held in storage at (or in) leases, refineries, natural gas processing plants, pipelines, tank farms, and bulk terminals that can store at least 50,000 barrels of petroleum products or that can receive petroleum products by tanker, barge, or pipeline. Crude oil that is in-transit by water from Alaska, or that is stored on Federal leases or in the Strategic Petroleum Reserve is included. Primary Stocks exclude stocks of foreign origin that are held in bonded warehouse storage.

ETBE (Ethyl tertiary butyl ether) (CH₃)₃COC₂H₅. An oxygenate blend stock formed by the catalytic etherification of isobutylene with ethanol.

Ethane (C₂H₆). A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of - 127.48 degrees Fahrenheit. It is extracted from natural gas and refinery gas streams.

Ether. A generic term applied to a group of organic chemical compounds composed of carbon, hydrogen, and oxygen, characterized by an oxygen atom attached to two carbon atoms (e.g., methyl tertiary butyl ether).

Ethylene (C₂H₄). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes. Ethylene is used as a petrochemical feedstock for numerous chemical applications and the production of consumer goods.

Exports. Shipments of crude oil and petroleum products from the 50 States and the District of Columbia to foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

Field Production. Represents crude oil production on leases, natural gas liquids production at natural gas processing plants, new supply of other hydrocarbons/oxygenates and motor gasoline blending components, and fuel ethanol blended into finished motor gasoline.

Flexicoking. A thermal cracking process which converts heavy

hydrocarbons such as crude oil, tar sands bitumen, and distillation residues into light hydrocarbons. Feedstocks can be any pumpable hydrocarbons including those containing high concentrations of sulfur and metals.

Fluid Coking. A thermal cracking process utilizing the fluidized-solids technique to remove carbon (coke) for continuous conversion of heavy, low-grade oils into lighter products.

Fresh Feed Input. Represents input of material (crude oil, unfinished oils, natural gas liquids, other hydrocarbons and oxygenates or finished products) to processing units at a refinery that is being processed (input) into a particular unit for the first time.

Examples:

(1.) Unfinished oils coming out of a crude oil distillation unit which are input into a catalytic cracking unit are considered fresh feed to the catalytic cracking unit.

(2.) Unfinished oils coming out of a catalytic cracking unit being looped back into the same catalytic cracking unit to be reprocessed are not considered fresh feed.

Fuel Ethanol (C₂H₅OH). An anhydrous alcohol (ethanol with less than 1% water) intended for gasoline blending as described in Oxygenates definition.

Fuels Solvent Deasphalting. A refining process for removing asphalt compounds from petroleum fractions, such as reduced crude oil. The recovered stream from this process is used to produce fuel products.

Gas Oil. A liquid petroleum distillate having a viscosity intermediate between that of kerosene and lubricating oil. It derives its name from having originally been used in the manufacture of illuminating gas. It is now used to produce distillate fuel oils and gasoline.

Gasohol. A blend of finished motor gasoline containing alcohol (generally ethanol but sometimes methanol) at a concentration of 10 percent or less by volume. Data on gasohol that has at least 2.7 percent oxygen, by weight, and is intended for sale inside carbon monoxide nonattainment areas are included in data on oxygenated gasoline. See **Oxygenates**.

Gasoline Blending Components. Naphthas which will be used for blending or compounding into finished aviation or motor gasoline (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus.

Gasoline Treated as Blendstock (GTAB). See **Motor Gasoline Blending Components**.

Gross Input to Atmospheric Crude Oil Distillation Units. Total input to atmospheric crude oil distillation units. Includes all crude oil, lease condensate, natural gas plant liquids, unfinished oils, liquefied refinery gases, slop oils, and other liquid hydrocarbons produced from tar sands, gilsonite, and oil shale.

Heavy Gas Oil. Petroleum distillates with an approximate boiling

range from 651 degrees Fahrenheit to 1000 degrees Fahrenheit.

High-Sulfur Distillate Fuel Oil. Distillate fuel oil having sulfur content greater than 500 ppm.

Hydrogen. The lightest of all gases, occurring chiefly in combination with oxygen in water; exists also in acids, bases, alcohols, petroleum, and other hydrocarbons.

Idle Capacity. The component of operable capacity that is not in operation and not under active repair, but capable of being placed in operation within 30 days; and capacity not in operation but under active repair that can be completed within 90 days.

Imported Crude Oil Burned As Fuel. The amount of foreign crude oil burned as a fuel oil, usually as residual fuel oil, without being processed as such. Imported crude oil burned as fuel includes lease condensate and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale.

Imports. Receipts of crude oil and petroleum products into the 50 States and the District of Columbia from foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

Isobutane (C_4H_{10}). A normally gaseous branch-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams.

Isobutylene (C_4H_8). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Isohexane (C_6H_{14}). A saturated branch-chain hydrocarbon. It is a colorless liquid that boils at a temperature of 156.2 degrees Fahrenheit.

Isomerization. A refining process which alters the fundamental arrangement of atoms in the molecule without adding or removing anything from the original material. Used to convert normal butane into isobutane (C_4), an alkylation process feedstock, and normal pentane and hexane into isopentane (C_5) and isohexane (C_6), high-octane gasoline components.

Isopentane. See *Natural Gasoline and Isopentane*.

Kerosene. A light petroleum distillate that is used in space heaters, cook stoves, and water heaters and is suitable for use as a light source when burned in wick-fed lamps. Kerosene has a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point, a final boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are No. 1-K and No. 2-K, the two grades recognized by ASTM Specification D 3699 as well as all other grades of kerosene called range or stove oil, which have properties similar to those of No. 1 fuel oil. See *Kerosene-Type Jet Fuel*.

Kerosene-Type Jet Fuel. A kerosene-based product having a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point and a final maximum boiling point of 572 degrees Fahrenheit and meeting ASTM Specification D 1655 and Military Specifications MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). It is used for commercial and military turbojet and turboprop aircraft engines.

Commercial. Kerosene-type jet fuel intended for use in commercial aircraft.

Military. Kerosene-type jet fuel intended for use in military aircraft.

Lease Condensate. A mixture consisting primarily of pentanes and heavier hydrocarbons which is recovered as a liquid from natural gas in lease separation facilities. This category excludes natural gas liquids, such as butane and propane, which are recovered at downstream natural gas processing plants or facilities. See *Natural Gas Liquids*.

Light Gas Oils. Liquid Petroleum distillates heavier than naphtha, with an approximate boiling range from 401 degrees Fahrenheit to 650 degrees Fahrenheit.

Liquefied Petroleum Gases (LPG). A group of hydrocarbon-based gases derived from crude oil refining or natural gas fractionation. They include: ethane, ethylene, propane, propylene, normal butane, butylene, isobutane, and isobutylene. For convenience of transportation, these gases are liquefied through pressurization.

Liquefied Refinery Gases (LRG). Liquefied petroleum gases fractionated from refinery or still gases. Through compression and/or refrigeration, they are retained in the liquid state. The reported categories are ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene. Excludes still gas.

Low-Sulfur Distillate Fuel Oil. Distillate fuel oil having sulfur content greater than 15 ppm to 500 ppm. Low sulfur distillate fuel oil also includes product with sulfur content equal to or less than 15 ppm if the product is intended for pipeline shipment and the pipeline has a sulfur specification below 15 ppm.

Lubricants. Substances used to reduce friction between bearing surfaces or as process materials either incorporated into other materials used as processing aids in the manufacture of other products, or used as carriers of other materials. Petroleum lubricants may be produced either from distillates or residues. Lubricants include all grades of lubricating oils from spindle oil to cylinder oil and those used in greases.

Merchant Oxygenate Plants. Oxygenate production facilities that are not associated with a petroleum refinery. Production from these facilities is sold under contract or on the spot market to refiners or other gasoline blenders.

Methanol (CH_3OH). A light, volatile alcohol intended for gasoline blending as described in Oxygenate definition.

Middle Distillates. A general classification of refined petroleum products that includes distillate fuel oil and kerosene.

Military Kerosene-Type Jet Fuel. See *Kerosene-Type Jet Fuel*.

Miscellaneous Products. Includes all finished products not classified elsewhere (e.g., petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and specialty oils). Note:

Beginning with January 2004 data, naphtha-type jet fuel is included in Miscellaneous Products.

Motor Gasoline (Finished). A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in spark-ignition engines. Motor gasoline, as defined in ASTM Specification D 4814 or Federal Specification VV-G-1690C, is characterized as having a boiling range of 122 to 158 degrees Fahrenheit at the 10 percent recovery point to 365 to 374 degrees Fahrenheit at the 90 percent recovery point. "Motor Gasoline" includes conventional gasoline; all types of oxygenated gasoline, including gasohol; and reformulated gasoline, but excludes aviation gasoline. Volumetric data on blending components, such as oxygenates, are not counted in data on finished motor gasoline until the blending components are blended into the gasoline. Note: E85 is included only in volumetric data on finished motor gasoline production and other components of product supplied.

Conventional Gasoline. Finished motor gasoline not included in the oxygenated or reformulated gasoline categories. Note: This category excludes reformulated gasoline blendstock for oxygenate blending (RBOB) as well as other blendstock.

Ed 55 and Lower. Finished conventional motor gasoline blended with a maximum of 55 volume percent denatured fuel ethanol.

Greater than Ed55. Finished conventional motor gasoline blended with denatured fuel ethanol where the volume percent of denatured fuel ethanol exceeds 55%.

OPRG. "Oxygenated Fuels Program Reformulated Gasoline" is reformulated gasoline which is intended for use in an oxygenated fuels program control area.

Oxygenated Gasoline (Including Gasohol). Oxygenated gasoline includes all finished motor gasoline, other than reformulated gasoline, having oxygen content of 2.0 percent or higher by weight. Gasohol containing a minimum 5.7 percent ethanol by volume is included in oxygenated gasoline. Oxygenated gasoline was reported as a separate product from January 1993 until December 2003 inclusive. Beginning with monthly data for January 2004, oxygenated gasoline is included in conventional gasoline. Historical data for oxygenated gasoline excluded Federal Oxygenated Program Reformulated Gasoline (OPRG). Historical oxygenated gasoline data also excluded other reformulated gasoline with a seasonal oxygen requirement regardless of season.

Reformulated Gasoline. Finished gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211(k) of the Clean Air Act. It includes gasoline produced to meet or exceed emissions performance and benzene content standards of federal-program reformulated gasoline even though the gasoline

may not meet all of the composition requirements (e.g., oxygen content) of federal-program reformulated gasoline. Note: This category includes Oxygenated Fuels Program Reformulated Gasoline (OPRG). Reformulated gasoline excludes Reformulated Blendstock for Oxygenate Blending (RBOB) and Gasoline Treated as Blendstock (GTAB).

Reformulated (Blended with Alcohol). Reformulated gasoline blended with an alcohol component (e.g., fuel ethanol) at a terminal or refinery to raise the oxygen content.

Reformulated (Blended with Ether). Reformulated gasoline blended with an ether component (e.g., methyl tertiary butyl ether) at a terminal or refinery to raise the oxygen content.

Reformulated (Non-Oxygenated). Reformulated gasoline without added ether or alcohol components.

Motor Gasoline Blending. Mechanical mixing of motor gasoline blending components, and oxygenates when required, to produce finished motor gasoline. Finished motor gasoline may be further mixed with other motor gasoline blending components or oxygenates, resulting in increased volumes of finished motor gasoline and/or changes in the formulation of finished motor gasoline (e.g., conventional motor gasoline mixed with MTBE to produce oxygenated motor gasoline).

Motor Gasoline Blending Components. Naphthas (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. These components include reformulated gasoline blendstock for oxygenate blending (RBOB) but exclude oxygenates (alcohols, ethers), butane, and pentanes plus. Note: Oxygenates are reported as individual components and are included in the total for other hydrocarbons, hydrogens, and oxygenates.

Conventional Blendstock for Oxygenate Blending (CBOB). Conventional gasoline blendstock intended for blending with oxygenates downstream of the refinery where it was produced. CBOB must become conventional gasoline after blending with oxygenates. Motor gasoline blending components that require blending other than with oxygenates to become finished conventional gasoline are reported as All Other Motor Gasoline Blending Components. Excludes reformulated blendstock for oxygenate blending (RBOB).

Gasoline Treated as Blendstock (GTAB). Non-certified Foreign Refinery gasoline classified by an importer as blendstock to be either blended or reclassified with respect to reformulated or conventional gasoline. GTAB was classified on EIA surveys as either reformulated or conventional based on emissions performance and the intended end use in data through the end of December 2009. Designation of GTAB as reformulated or conventional was discontinued beginning with data for January 2010. GTAB was reported as a single product beginning with data for January 2010. GTAB data for January 2010 and later months is presented as conventional

motor gasoline blending components when reported as a subset of motor gasoline blending components.

Reformulated Blendstock for Oxygenate Blending (RBOB). Specially produced reformulated gasoline blendstock intended for blending with oxygenates downstream of the refinery where it was produced. Includes RBOB used to meet requirements of the Federal reformulated gasoline program and other blendstock intended for blending with oxygenates to produce finished gasoline that meets or exceeds emissions performance requirements of Federal reformulated gasoline (e.g., California RBOB and Arizona RBOB). Excludes conventional gasoline blendstocks for oxygenate blending (CBOB).

RBOB for Blending with Alcohol. Motor gasoline blending components intended to be blended with an alcohol component (e.g., fuel ethanol) at a terminal or refinery to raise the oxygen content. RBOB product detail by type of oxygenate was discontinued effective with data for January 2010. Beginning with data for January 2010, RBOB was reported as a single product.

RBOB for Blending with Ether. Motor gasoline blending components intended to be blended with an ether component (e.g., methyl tertiary butyl ether) at a terminal or refinery to raise the oxygen content. RBOB product detail by type of oxygenate was discontinued effective with data for January 2010. Beginning with data for January 2010, RBOB was reported as a single product.

All Other Motor Gasoline Blending Components. Naphthas (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. Includes receipts and inputs of Gasoline Treated as Blendstock (GTAB). Excludes conventional blendstock for oxygenate blending (CBOB), reformulated blendstock for oxygenate blending, oxygenates (e.g. fuel ethanol and methyl tertiary butyl ether), butane, and pentanes plus.

MTBE (Methyl tertiary butyl ether) $(CH_3)_3COCH_3$. An ether intended for gasoline blending as described in Oxygenate definition.

Naphtha. A generic term applied to a petroleum fraction with an approximate boiling range between 122 degrees Fahrenheit and 400 degrees Fahrenheit.

Naphtha Less Than 401° F. See *Petrochemical Feedstocks*.

Naphtha-Type Jet Fuel. A fuel in the heavy naphtha boiling range having an average gravity of 52.8 degrees API, 20 to 90 percent distillation temperatures of 290 degrees to 470 degrees Fahrenheit, and meeting Military Specification MIL-T-5624L (Grade JP-4). It is used primarily for military turbojet and turboprop aircraft engines because it has a lower freeze point than other aviation fuels and meets engine requirements at high altitudes and speeds. Note: Beginning with January 2004 data, naphtha-type jet fuel is included in *Miscellaneous Products*.

Natural Gas. A gaseous mixture of hydrocarbon compounds, the primary one being **methane**.

Natural Gas Field Facility. A field facility designed to process natural gas produced from more than one lease for the purpose of recovering condensate from a stream of natural gas; however, some field facilities are designed to recover propane, normal butane, pentanes plus, etc., and to control the quality of natural gas to be marketed.

Natural Gas Liquids. Those hydrocarbons in natural gas that are separated from the gas as liquids through the process of absorption, condensation, adsorption, or other methods in gas processing or cycling plants. Generally such liquids consist of propane and heavier hydrocarbons and are commonly referred to as lease condensate, natural gasoline, and liquefied petroleum gases. Natural gas liquids include natural gas plant liquids (primarily ethane, propane, butane, and isobutane; see *Natural Gas Plant Liquids*) and lease condensate (primarily pentanes produced from natural gas at lease separators and field facilities; see *Lease Condensate*).

Natural Gas Plant Liquids. Those hydrocarbons in natural gas that are separated as liquids at natural gas processing plants, fractionating and cycling plants, and, in some instances, field facilities. Lease condensate is excluded. Products obtained include ethane; liquefied petroleum gases (propane, butanes, propane-butane mixtures, ethane-propane mixtures); isopentane; and other small quantities of finished products, such as motor gasoline, special naphthas, jet fuel, kerosene, and distillate fuel oil.

Natural Gas Processing Plant. Facilities designed to recover natural gas liquids from a stream of natural gas that may or may not have passed through lease separators and/or field separation facilities. These facilities control the quality of the natural gas to be marketed. Cycling plants are classified as gas processing plants.

Natural Gasoline and Isopentane. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas, that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane which is a saturated branch-chain hydrocarbon, (C_5H_{12}) , obtained by fractionation of natural gasoline or isomerization of normal pentane.

Net Receipts. The difference between total movements into and total movements out of each PAD District by pipeline, tanker, and barge.

Normal Butane. See *Butane*.

OPEC. An intergovernmental organization whose stated objective is to coordinate and unify petroleum policies of member countries. It was created at the Baghdad Conference on September 10–14, 1960. Current and former members (with years of membership) include Algeria (1969-present), Angola (2007-present), Congo (Brazzaville) (June 2018-present), Ecuador (1973-1992 and 2007-present), Gabon (1975-1994 and July, 2016-present), Indonesia (1962-2008 and January, 2016-November, 2016), Iran (1960-present), Iraq (1960-present), Kuwait (1960-present), Libya (1962-present), Nigeria (1971-present), Qatar (1961-2018), Saudi Arabia (1960-present), United Arab Emirates (1967-present), and Venezuela (1960-present).

Operable Capacity. The amount of capacity that, at the beginning of the period, is in operation; not in operation and not under active repair, but capable of being placed in operation within 30 days; or not in operation but under active repair that can be completed within 90 days. Operable capacity is the sum of the operating and idle capacity and is measured in barrels per calendar day or barrels per stream day.

Operable Utilization Rate. Represents the utilization of the atmospheric crude oil distillation units. The rate is calculated by dividing the gross input to these units by the operable refining capacity of the units.

Operating Capacity. The component of operable capacity that is in operation at the beginning of the period.

Operating Utilization Rate. Represents the utilization of the atmospheric crude oil distillation units. The rate is calculated by dividing the gross input to these units by the operating refining capacity of the units.

Other Hydrocarbons. Materials received by a refinery and consumed as a raw material. Includes hydrogen, coal tar derivatives and gilsonite. Excludes natural gas used for fuel or hydrogen feedstock.

Other Oils Equal To or Greater Than 401° F. See *Petrochemical Feedstocks*.

Other Oxygenates. Other aliphatic alcohols and aliphatic ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Oxygenated Gasoline. See *Motor Gasoline (Finished)*.

Oxygenates. Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend. Fuel Ethanol, Methyl Tertiary Butyl Ether (MTBE), Ethyl Tertiary Butyl Ether (ETBE), and methanol are common oxygenates.

Fuel Ethanol. Blends of up to 10 percent by volume anhydrous ethanol (200 proof) (commonly referred to as the “gasohol waiver”).

Methanol. Blends of methanol and gasoline-grade tertiary butyl alcohol (GTBA) such that the total oxygen content does not exceed 3.5 percent by weight and the ratio of methanol to GTBA is less than or equal to 1. It is also specified that this blended fuel must meet ASTM volatility specifications (commonly referred to as the “ARCO” waiver).

Blends of up to 5.0 percent by volume methanol with a minimum of 2.5 percent by volume cosolvent alcohols having a carbon number of 4 or less (i.e., ethanol, propanol, butanol, and/or GTBA). The total oxygen must not exceed 3.7 percent by weight, and the blend must meet ASTM volatility specifications as well as phase separation and alcohol purity specifications (commonly referred to as the “DuPont” waiver).

MTBE (Methyl tertiary butyl ether). Blends up to 15.0 percent by volume MTBE which must meet the ASTM D4814 specifications. Blenders must take precautions that

the blends are not used as base gasolines for other oxygenated blends (commonly referred to as the “Sun” waiver).

Pentanes Plus. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline, and plant condensate.

Persian Gulf. The countries that comprise the Persian Gulf are: Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates.

Petrochemical Feedstocks. Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics. The categories reported are “Naphtha Less Than 401° F” and “Other Oils Equal To or Greater Than 401° F.”

Naphtha Less Than 401° F. A naphtha with a boiling range of less than 401 degrees Fahrenheit that is intended for use as a petrochemical feedstock.

Other Oils Equal To or Greater Than 401° F. Oils with a boiling range equal to or greater than 401 degrees Fahrenheit that are intended for use as a petrochemical feedstock.

Petroleum Administration for Defense (PAD) Districts. Geographic aggregations of the 50 States and the District of Columbia into five districts by the Petroleum Administration for Defense in 1950. These districts were originally defined during World War II for purposes of administering oil allocation.

Petroleum Coke. A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (of 42 U.S. gallons each) per short ton. Coke from petroleum has a heating value of 6.024 million Btu per barrel.

Catalyst Coke. In many catalytic operations (e.g., catalytic cracking) carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refining process. This carbon or coke is not recoverable in a concentrated form.

Marketable Coke. Those grades of coke produced in delayed or fluid cokers which may be recovered as relatively pure carbon. This “green” coke may be sold as is or further purified by calcining.

Petroleum Products. Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Pipeline (Petroleum). Crude oil and product pipelines used to transport crude oil and petroleum products respectively, (including interstate, intrastate, and intracompany pipelines) within the 50 States and the District of Columbia.

Plant Condensate. One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquids at gas inlet separators or scrubbers in processing plants.

Processing Gain. The volumetric amount by which total output is greater than input for a given period of time. This difference is due to the processing of crude oil into products which, in total, have a lower specific gravity than the crude oil processed.

Processing Loss. The volumetric amount by which total refinery output is less than input for a given period of time. This difference is due to the processing of crude oil into products which, in total, have a higher specific gravity than the crude oil processed.

Product Supplied, Crude Oil. Crude oil burned on leases and by pipelines as fuel.

Production Capacity. The maximum amount of product that can be produced from processing facilities.

Products Supplied. Approximately represents consumption of petroleum products because it measures the disappearance of these products from primary sources, i.e., refineries, natural gas processing plants, blending plants, pipelines, and bulk terminals. In general, product supplied of each product in any given period is computed as follows: field production, plus refinery production, plus imports, plus unaccounted for crude oil, (plus net receipts when calculated on a PAD District basis), minus stock change, minus crude oil losses, minus refinery inputs, minus exports.

Propane (C_3H_8). A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of - 43.67 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams. It includes all products designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial propane and HD-5 propane.

Propylene (C_3H_6). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Propylene (C_3H_6) (nonfuel use). Propylene that is intended for use in nonfuel applications such as petrochemical manufacturing. Nonfuel use propylene includes chemical-grade propylene, polymer-grade propylene, and trace amounts of propane. Nonfuel use propylene also includes the propylene component of propane/propylene mixes where the propylene will be separated from the mix in a propane/propylene splitting process. Excluded is the propylene component of propane/propylene mixes where the propylene component of the mix is intended for sale into the fuel market.

Refinery. An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and oxygenates.

Refinery-Grade Butane. See *Butane*.

Refinery Input, Crude Oil. Total crude oil (domestic plus foreign) input to crude oil distillation units and other refinery processing units (cokers, etc.).

Refinery Input, Total. The raw materials and intermediate materials processed at refineries to produce finished petroleum products. They include crude oil, products of natural gas processing plants, unfinished oils, other hydrocarbons and oxygenates, motor gasoline and aviation gasoline blending components and finished petroleum products.

Refinery Production. Petroleum products produced at a refinery or blending plant. Published production of these products equals refinery production minus refinery input. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. Refinery production of unfinished oils, and motor and aviation gasoline blending components appear on a net basis under refinery input.

Refinery Yield. Refinery yield (expressed as a percentage) represents the percent of finished product produced from input of crude oil and net input of unfinished oils. It is calculated by dividing the sum of crude oil and net unfinished input into the individual net production of finished products. Before calculating the yield for finished motor gasoline, the input of natural gas liquids, other hydrocarbons and oxygenates, and net input of motor gasoline blending components must be subtracted from the net production of finished motor gasoline. Before calculating the yield for finished aviation gasoline, input of aviation gasoline blending components must be subtracted from the net production of finished aviation gasoline.

Reformulated Blendstock for Oxygenate Blending (RBOB). See *Motor Gasoline Blending Components*.

Reformulated Gasoline. See *Motor Gasoline (Finished)*.

Renewable Fuels (Other). Fuels and fuel blending components, except biomass-based diesel fuel, renewable diesel fuel, and fuel ethanol, produced from renewable biomass.

Residual Fuel Oil. A general classification for the heavier oils, known as No. 5 and No. 6 fuel oils, that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations. It conforms to ASTM Specifications D 396 and D 975 and Federal Specification VV-F-815C. No. 5, a residual fuel oil of medium viscosity, is also known as Navy Special and is defined in Military Specification MIL-F-859E, including Amendment 2 (NATO Symbol F-770). It is used in steam-powered vessels in government service and inshore power plants. No. 6 fuel oil includes Bunker C fuel oil and is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

Residuum. Residue from crude oil after distilling off all but the heaviest components, with a boiling range greater than 1000 degrees Fahrenheit.

Road Oil. Any heavy petroleum oil, including residual asphaltic oil used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades from 0, the most liquid, to 5, the most viscous.

Shell Storage Capacity. The design capacity of a petroleum storage tank which is always greater than or equal to working storage capacity. Special Naphthas. All finished products within the naphtha boiling range that are used as paint thinners, cleaners, or solvents. These products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specification D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks are excluded.

Steam (Purchased). Steam, purchased for use by a refinery, that was not generated from within the refinery complex.

Still Gas (Refinery Gas). Any form or mixture of gases produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, propylene, etc. Still gas is used as a refinery fuel and a petrochemical feedstock. The conversion factor is 6 million BTU's per fuel oil equivalent barrel.

Stock Change. The difference between stocks at the beginning of the reporting period and stocks at the end of the reporting period. Note: A negative number indicates a decrease (i.e., a drawdown) in stocks and a positive number indicates an increase (i.e., a buildup) in stocks during the reporting period.

Strategic Petroleum Reserve (SPR). Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

Sulfur. A yellowish nonmetallic element, sometimes known as "brimstone." It is present at various levels of concentration in many fossil fuels whose combustion releases sulfur compounds that are considered harmful to the environment. Some of the most commonly used fossil fuels are categorized according to their sulfur content, with lower sulfur fuels usually selling at a higher price. Note: No. 2 Distillate fuel is currently reported as having either a 0.05 percent or lower sulfur level for on-highway vehicle use or a greater than 0.05 percent sulfur level for off-highway use, home heating oil, and commercial and industrial uses. Residual fuel, regardless of use, is classified as having either no more than 1 percent sulfur or greater than 1 percent sulfur. Coal is also classified as being low-sulfur at concentrations of 1 percent or less or high-sulfur at concentrations greater than 1 percent.

Supply. The components of petroleum supply are field production, refinery production, imports, and net receipts when calculated on a PAD District basis.

TAME (Tertiary amyl methyl ether) $(CH_3)_2(C_2H_5)COCH_3$. An oxygenate blend stock formed by the catalytic etherification of isoamylene with methanol.

Tank Farm. An installation used by gathering and trunk pipeline companies, crude oil producers, and terminal operators (except refineries) to store crude oil.

Tanker and Barge. Vessels that transport crude oil or petroleum products. Data are reported for movements between PAD Districts; from a PAD District to the Panama Canal; or from the Panama Canal

to a PAD District.

TBA (Tertiary butyl alcohol) $(CH_3)_3COH$. An alcohol primarily used as a chemical feedstock, a solvent or feedstock for isobutylene production for MTBE; produced as a co-product of propylene oxide production or by direct hydration of isobutylene.

Thermal Cracking. A refining process in which heat and pressure are used to break down, rearrange, or combine hydrocarbon molecules. Thermal cracking includes gas oil, visbreaking, fluid coking, delayed coking, and other thermal cracking processes (e.g., flexicoking). See individual categories for definition.

Toluene $(C_6H_5CH_3)$. Colorless liquid of the aromatic group of petroleum hydrocarbons, made by the catalytic reforming of petroleum naphthas containing methyl cyclohexane. A high-octane gasoline-blending agent, solvent, and chemical intermediate, base for TNT.

Ultra-Low Sulfur Distillate Fuel Oil. Distillate fuel oil having sulfur content of 15 ppm or lower. Ultra-low sulfur distillate fuel oil that will be shipped by pipeline must satisfy the sulfur specification of the shipping pipeline if the pipeline specification is below 15 ppm. Distillate fuel oil intended for pipeline shipment that fails to meet a pipeline sulfur specification that is below 15 ppm will be classified as low-sulfur distillate fuel oil.

Unaccounted for Crude Oil. Represents the arithmetic difference between the calculated supply and the calculated disposition of crude oil. The calculated supply is the sum of crude oil production plus imports minus changes in crude oil stocks. The calculated disposition of crude oil is the sum of crude oil input to refineries, crude oil exports, crude oil burned as fuel, and crude oil losses.

Unfinished Oils. All oils requiring further processing, except those requiring only mechanical blending. Unfinished oils are produced by partial refining of crude oil and include naphthas and lighter oils, kerosene and light gas oils, heavy gas oils, and residuum.

Unfractionated Streams. Mixtures of unsegregated natural gas liquid components excluding those in plant condensate. This product is extracted from natural gas.

United States. The United States is defined as the 50 States and the District of Columbia.

Vacuum Distillation. Distillation under reduced pressure (less the atmospheric) which lowers the boiling temperature of the liquid being distilled. This technique with its relatively low temperatures prevents cracking or decomposition of the charge stock.

Visbreaking. A thermal cracking process in which heavy atmospheric or vacuum-still bottoms are cracked at moderate temperatures to increase production of distillate products and reduce viscosity of the distillation residues.

Wax. A solid or semi-solid material at 77 degrees Fahrenheit consisting of a mixture of hydrocarbons obtained or derived from petroleum fractions, or through a Fischer-Tropsch type process, in which the straight-chained paraffin series predominates. This includes all marketable wax, whether crude or refined, with a congealing point

(ASTM D 938) between 80 (or 85) and 240 degrees Fahrenheit and a maximum oil content (ASTM D 3235) of 50 weight percent.

Working Storage Capacity. The difference in volume between the maximum safe fill capacity and the quantity below which pump suction is ineffective (bottoms).

Xylene ($C_6H_4(CH_3)_2$). Colorless liquid of the aromatic group of hydrocarbons made the catalytic reforming of certain naphthenic petroleum fractions. Used as high-octane motor and aviation gasoline blending agents, solvents, chemical intermediates. Isomers are metaxylene, orthoxylene, paraxylene.